# outcome

12/1/2023

**By: student and learner :**

**Tshingombe tshitadi**

**college student and high education qualific tion department university**

**Engineering electrical learner research l w motion week career work outcome**

**Ref;**

**Isbn;**

**Price : evidence low**

**Price academic previous award amendment,**

**copyright R5000 fee charge circular financi l delivery bill information circular debater creditor**

**Discount : %**

**Platinum: cost**

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Content

Reference Manuel

Bibliographic

Topic  poe

Author: tshingombe Tshitadi Fiston
Report school college: 2022/
ISBN :20222
Title : guidelines practical  theory engineering circular children's youth  technical institute base college
Volume:
Copyright: reserved rights
Legal archive : ftjr2461/  / ft JA37/19  /  ...ftgaek f 24/ 22 .223  work skill development record transcript

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Published edition: .edutech published
Cost:  order case book  project

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| Subject | formative | Summative | yes | not |
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Award portofolio low

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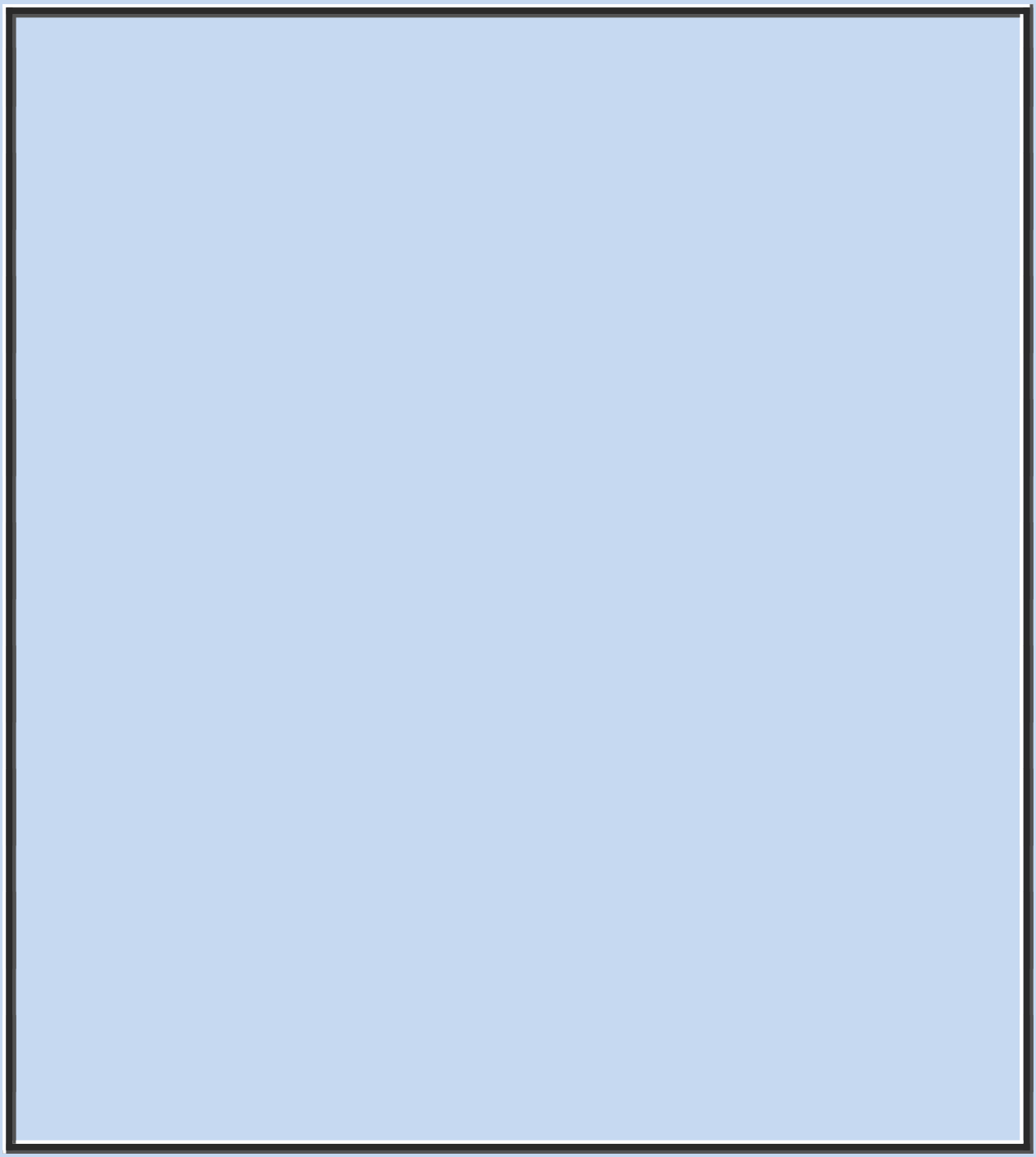

**TSHINGOMBE TSHITADI FISTON :**

**ORDER SUBMISSION : HIGH EDUCATION AWARD DEGRE DIPLOMA ,**

**COLLEGE : ST PEACE , AND SAQA INSTITUT VERIFICATION**

**FACULTY :ENGINEERING ELECTRICAL**

# SAQA: AWARD DIPLOMA TRANSCRIPT

**AWARD SUBMISSION:CONTINUING SUPLEMENTAIRY DEGRE 1TH,2TH**

**QUALIFICATION**

**CREDIT : 120/ 10, 20, 40, 90,**

**ACCREDITATION ;**

**LEVEL, 1,2,3 ,4, YEARS 2020.-2019 COUNRTY RSA SADC**

**BY: PERMIT AND AWARDING LICENCING SUBMISSION SAQA INSTITUTION**

**RECORDING SCREEN NUMBER MARKING SCORE : DOES MEET REQUIREMENT**

**CRITERION RSA ,**

**-SAQA AND DEPARTMENT HIGH EDUCATION , ST PEACE COLLEGE**

**TSHINGOMBE TSHITADI :**

**About Awards**

The SAQA QUALIFICATION funds research and education in science and engineering, through grants, contracts, and cooperative agreements. The Foundation accounts for about 20 percent of OVER 50% VERIFICATION TRANSCRIPT support to academic institutions for basic research.

SAQA RSA , DR CONGO ESU , provides several ways to research past (since 2020 ) and current awards:

**AWARD ABSTRACTS**

Information about research projects that SAQ has funded since 2020 can be found by searching the Award Abstracts database. The information includes abstracts that describe the research, and names of principal investigators and their institutions. The database includes both completed and in-process research.

**RECENT AWARDS, ST PEACE COLLEGE TVET EDUCATION . LEARNING ENGINEERING**

The FastLane server offers a list of Recent Awards.

**BUDGET INTERNET INFORMATION SYSTEM**

The Budget Internet Information System provides summaries of award amounts by state, awardee institution, and Directorate.

**MAJOR INFRASTRUCTURE AWARDS AND CENTERS**

Major support for science and engineering infrastructure, including support for science and technology centers, and support for polar research, is provided through several important NSF programs. More information is available about these programs on the home page of the Office of Integrative Activities, on the NSF's external links page, and the home page of the Office of Polar Programs. EQUIVALENTE TRANSLATE

**PRESIDENTIAL AND HONORARY AWARDS**

Information about these award programs can be found on the Presidential and Honorary Awards RSA page.

**ADDITIONAL INFORMATION**

The RSA budget request documents proposed spending by the NSF for research and education.

Publications such as LEARNER Science and Engineering Indicators, and information in the Statistics area of our website help put SADC investment in research and education through National Science Foundation programs in national and international perspective.

**About Funding**

The National Science Foundation funds research and education in most fields of science and engineering. OR ELECTRICAL ENGINEERING TIME TABLE It does this through grants, and cooperative agreements to more than 2,000 colleges, universities, school systems, businesses, informal science organizations and other research organizations throughout the RSA QUALIFICATION , SADC DR CONGO SUBMISSION RECORD TRANSCRIPTION The Foundation accounts for about one-fourth of federal support to academic institutions for basic research.

**Fund Your Research**

- Search for Funding
- Recently Announced Funding Opportunities
- Funding-related Dear Colleague Letters,
- HYPOTHESE THEREM , THEORY, DESCRIB, FACTOR,, ,
- HYPHOTESE FORM FILLING SAQA REQUIREMENT DEGRE GRADE CONSOLIDATION INPUT OUTPUT ANALYSE LEARNING EDUCATIONAL LEARNING THEORY, TOPIC MODULE ACTIVITY OUTCOM CRITERION , VARIANTION AWARD INTEGRITEED FUNCTION ..COLLEGEGE ST PEACE CONTINUING SUPPLEMENTAIRE , OVER TIME AWARD EVALUATION CERTIFICATE RESOLUTION TRANSCRIB , RECORD FINAL 3MMONTH ,
- PROBLEMATIQUE :UNKCONOW

**1.Topic**

Introduction .learning engineering

-Cover letter .

- Requester letter.

**3.TOPIC DATABASE COLLECTION EVALUATION FILING CRITERION STATEMENT SUBMISSION . SAQA TO COLLEGE.**

**EVALUATION OF FOREIGN QUALIFICATION**

**: NAME TSHINGOMBE TSHITADI FISTON.**

**SCREEN: B1 DATABASE.**

| | |
|---|---|
| **-APPLICATION FORM ON LINE**<br><br>**-QUOTATION /PAYMENT REFERENCE NUMBER AND AMOUNT**<br><br>**-DOCUMENT ISSUED IN ORIGINAL LANGUAGE OF COUNTRY SUBMITTED**<br><br>**-VERBATIM SWORN TRANSLATION** | **-NO SUBMISSION**<br><br>**-**<br><br>**ENTRANCE ST PEACE ,**<br><br>**-OK TRANSLATE** |

| | |
|---|---|
| | **-OK SWORN** |
| **-electrical engineering: school qualification entrance st peace.** | Engineering award learn |
| **-HIGHR EDUCATION QUALIFICATION : ENGINEERING AWARD LEARN** | SUBMITTED CERTIFICATED |
| **-FINAL AWARD DEGREE DIPLOMA CERTIFICATE** | SUBMITTED<br>, ok |
| **-TRANSCRIPTS OF ACADEMIC RECORDS REFLECTING EACH OF YEARS STUDY 1**<br><br>**ST PEACE COLLEGE, POST GRADUAT, AWARD DEGRE DIPLOMAT.**<br><br>**-ADMNI REQUIRED RECORD PASS , National Certificate N1-N3: Engineering Studies (Electrician)Course Contents N4,5,6, :Mathematics**<br>**Electrotechnics**<br>**Logic Systems**<br>**Industrial Electronics,** | 1x not submit , no<br><br>SUBMITTED ,OK |
| **-COUNTRY SPECIFIC DRC SCHOOL LEAVING CERTIFICATE**<br><br>**-DIPLOME D'ETAT EXAM D'ETAT DR CONGO ,**<br><br>**BULLETIN : TRANSLATE LETTRE NOTE COURSE RWITTEN MATTRIC GRADE 11,12 MASTER SKILL PEPARATORY .**<br><br>**COMMENT. EXPLANATOR LEAVING**<br><br>- **Certificate: mathematique informatique unikin, 1 niveaux attestation requisite 1 niveaux initiation ms dos windows, module 1, traitement text table ,ms word, ms excel. RESITTE**<br><br>- **Attestation: frequentation preparatory ispt kin section pedagogies technique electromecanique, electrotechnique, electronique construction subject.**<br><br>- **RESSITE**<br><br>- **Attestation provisoire: inpp service. MOTORISE MOTEUR ESSENCE, REUSSITE.**<br><br>- | -SUBMITTED CERTIFICATED<br>,11 . ,12 grade ok, certified<br><br>not submission<br>,11 . ,12 grade ok, |
| **-SOUTH AFRICAN QUALIFICATION** | SUBMITTED CERTIFICATED |

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|---|---|
| **( SHORT COURSE PROFESSIONAL MEMBERSHIP**<br><br>**-DESIGNATION NON RELEVANT X SASSETA SETA,PSIRA CCMA LABOUR COURT , SKILL DEVELOPMENT SAQA COUNCIL ,NOTE BARGANING CERTIFICATE ENGINEERING LOW ,**<br><br>**SKILL DEVELOPMENT SAQA MERSETA. SASSETA , COURT SHORT OUTCOM APPEAL, BID AWARD ,**<br><br>**SUBMITTED RECORD.** | |
| **TOTAL COPY RETURNER LETTER EXPLANATORY**<br><br>**-GRAND TOTAL QUALIFY**<br><br>**FINAL AWARD DEGREE DIPLOMA CERTIFICATE /COMPLAIN FINAL BULLETIN ,TRANSCRIPT RECORD,** | SUBMITTED CERTIFICATED |

**Author submission tshingombe tshitadi: self assessor, moderator student**

**Learner teacher and educatory: assessor,,**

**CONIE .**

BY TSHINGOMBE TSHITADI STUDY :

# RESEARCH SAQA QUALIFICATION.

- Final award certificate(s)
- Academic transcript(s)
- Original documents
- Sworn document(s) translation(s)

FINAL AWARD DEGREE DIPLOMAT 1TH, 2TH,

CIRCULUM ASSESSMENT FRAMEWORK SAQA QUALIFICATION AUTHORITY

INSTITUT VERIFICATION QUALITY CONTROL ASSESSMENT SUMMATIVE, FORMATIVE, SUPLEMENTAIRY EXTRA TIME TABLE

# HIGH EDUCATION SAOUTH AFRICAT DEPARTMENT

CIRCULUM ASSEMENT : N4-N6

st peace college filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

**ST PEACE COLLEGE / AND A I P**

**FACULTY : ELECTRICAL ENGINEERING**

ID : EVALUATION SAQA APPLICATION 20191130002

**_____, 202001305040/ 201911130002**

**ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**HIGHER. EDUCATION QUALIFICATION**

**-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/**

**- NO PROVISIONAL CERTIFICATE OR UNOFFICIAL STEMENTS**

**-CERTIFIE NO SUBMITE 1TH**

**-OFFICIAL STATEMENT FROM INSTITUT**

**- DIPLOMAT D'ETAT EXAM CERTIFIE / NO SUBMITED**

**-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**- REGISTRAR CERTIFICATE NO: COM 18269001: /**

**- ST PEACE COLLEGE LEVEL N 'ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:**

**-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE**

**- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT**

**-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%**

**-REGISTRAR FEES FINAL**

**ST PEACE COLLEGE / AND A I P**

**FACULT: ELECTRICAL ENGINEERING**

**TIME TABLE , /**
**Study by tshingombe tshitadi fiston**

**learner: conies**

**Moderator facilitator instructor: sasseta, seta:**

**security training safety, strategies**

**Trainer performance train training. Manage electronic system :, assessment**

**Learner: khruis /...**

**Faculty: engineering electrical**

MENTORING CAREER LEARNER : GUIDENCE ASSESSMENT POLICE SOCIAL PSYCHOLOGIE , INDUCTION LEARNER

CONDUCT ASSESSMENT . MANAGEMENT PRINCIPAL OFFICER DUTY RESPONSABILITY LEARNER , STUDENT COLEGE SUBMISSION CAREER GUIDENCE QUALITY CONTROL MANAGEMENT ORIENTATION MANUEL , SYTEM

MANUEL FOLLOW, MANAGEMENT SYSTEM OPERATIONEL

PRESENT ORAL LEARNER ELECTRICAL ENGINEERING

EXAMINATIONS FOR THE MECHANICAL AND ELECTRICAL ENGINEERS CERTIFICATES OF COMPETENCY (FACTORIES)

SAINT PEACE COLLEGE :
EXAM DIPLOMAT

N4- N6 --

EXAMINATION AWARD
DEGRE DIPLOMAT
ENGINEERING ,
DIPLOMA

- ASSESSMENT POLICE ,
- ASSESSMENT LABOUR PROCEDURE POLICE SKILL DEVLOPMENT ARTISANT :
- ASSESSMENT TRAINING PROCESS EDUCATION
- ASASSEMENT HEALTH ENGINEERING SCIECENCE

OHS 3/1/4/6
DEPARTMENT OF LABOUR OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

TOPIC RESEARCH CONTINUE.  REFERNECE RESOURCE ON LINE  version to textbook online topic weight

Presente oral

**NAME STUDENT RESEARCH: TSHINGOMBE TSHITADI**

**LEARNER TSHINGOMBE**

**-PERMIT WORK STUDY RESEARCH, EXAMINATOR NATIONAL AWARD CERTIFICATE DIPLOMAT**

**MODERATOR MARK**

**CHIEF MARKING GUIDELINE**

**COUNCIL EDUCATION**

**PERMIT WORK LEARNER QUALIFICATION AWARD DEGRE DIPLOMAT**

**PERMIT STUDIE ACADEMIC INSTITUTE RESEARCH PERMITCAREER VOCATIONEL BASIC ADVANCED FILING SYSTEM**

**MANAGEMENT PRINCIPAL**

**SUBMISSION  LECTURE  NOTE SELF ASSEMENT POE'S PEER  ASSESSEMENT, GROUPE ASSEMMENT, SCOOTISH**

**Content page:**

**-topic**

**Abstral :** Overview: Statement  national system  examination and qualification system framework regulator  overview knowledge application  and finalise with system rural land reform council quality control process  on high education system and universities system need energetically for work in the time system real and take most imaginary system  energetically scientific discovery on the end of the day system

**1. Purpose:**

THE END OVER OF CONCILLIATION SYSTEM COMMMISIONING SYSTEM ARBITARL

Statement national load credit and accreditation booking and bookkeeping journal inventory delivery note claim academicals system need resold agreement minimal wage on framework system reform provisional

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Site situation land reform geostrategic  zone sartorial

Climatic legend system

**2. Topic 1. Circular research question  rural development energetically**

Examination registrar post / docket sytem manuel / ob report , judgment book evidence investigation

Id claim , user name  claim
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**Registrar  student, st peace college study ca**

**\ registrar teacher  st peace college, labour working  teacher career outcome mentoring policing**

-

**Policy student st peace college :**

**policy poor performance , human resource  learner student registrar in tank assessment**

**-history student crime record student  criminal student last :**

**-time table assessment result n1,n2,n3, n4, n5, n6**

**- time table completed textbook  student learner**

**-teacher st peace  record teacher time assememen result teacher uncapacity  time table st peace**

**college , time table education department**

**-identification :student st peace college ,**

**-proof adresse , proof service report affidavit.**

**-compliance re – written achievement :**

**-**

**statement student and teacher disciplinary guardant parental**

**- clearance record teacher time table**

**-Conduct last disciplinary assessment learner**

**-**

**-statement global student police fraud anti fraud corruption**

**Policy management performance disciplinary attendance examination , non attendance**

**examination student  un reportable.**

**Safety secure  rules management disciplinary operational engineering  st peace registrar prevention  time table  log departure schedule amendment  n4, attendance t1,t2t,3 diplomat engineering full time  education department and  labor  close time table  ,**

Claim case student court explain

**Registrar  case  attendence  subject cours**

Claim  case study

**policy research  id  submission  completed :**

CONFIDEN

**Author submission  tshingombe tshitadi: student**

**Learner  teacher and educatory activity: kekele  moloi  , conies**

**1. TOPIC: ORAL PRESENTATION.  Assessment test**

1.2 **INTRODUCTION**: LEARNING ENGINEERING ELECTRICAL THING ABOUT

Professional and  council engineering  ruling  and council education trading and training school high grade  qualification trading  and training school , high  grade  qualification saqa degree , plume between  countries  developing  and  agreeing  buy  consentient  association and  commissioner international.

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-study subject assessment saqa award degree diploma, that is not meet framework saqa for, criterion test saqa supplementary

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- course teacher give to student engineering practice over time table over subject no including documentation language in rsa system , educational councilor ,

- my integration in college education high graduation diploma engineering to achieve mark , score record , transcript and certify copyright reward , award , statement compelling are true and achieve the verification agree saqa and council the time table presented , in the high grade degree diploma record sale and pricing award , reward extra subject criterion outcome , exhibited screed , saqa development college vocational , technical learning distance career professional , policy saqa term award for, 1th and continuing college 2th phase over 3 month no examination and certificate department .

| Topic, business. | Mark | Remark |
|---|---|---|
| **Oral presentation** | | |
| **Confidence** | 5 mark | -5mark |
| **Eye contract** | 5 mark | |
| **movements** | 5mark | |
| **Topic** | 5 mark | |
| **Grammar punctual** | 5 mark | |
| **Functioned pronoun**<br>**Total mark** | 25 mark | |

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**2. TOPIC. LEARNING ENGINEERING TIME TABLE ASSESSEMENT**

DESIGN TABLE ALLOCATION MARK: mark saqa module award degree diploma engineering electrical time

- Abstral :Development project curriculum vitae presentations project art work , superior quality polytechnic professional service education award degree council creating value for monetary file pocket document wallet
- -read :book engineering electrical trade textbook rearward homework class work , framework student and daily learning , superior quality
- Prepare and oral : resume and practice assessment give oral award degree diplomat meet requesting saqa coition engineering module completed discovering language extra subject in rsa . allocation math , science engineering , industrial electronic, trade theory electrical, , engineering electrical outcome ,criterion exhibit module semester learning reward workbook, presented saqa.
- Enforcement: low experience engineering command , saps saqa policing requesting low educational council saqa
- Exam : find experience engineering course by topic course number , accreditation award minimum criterion
- 2 collection :audio video lecture , on line textbook , news course mot visited course , supplement air resource , cross disciplinary
- Topic list energy , entry engineering learning electrical outcome award

-translated course education award degree diplomat certificate test evaluation dr Congo examination high grade institution pedagogy technical examine and test attestation

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preparatory high grade diploma subject science technical pedagogy , math chemistry physic technology mechanical electrical design technical drawing electrical , examination evaluation unkin, training formative subject module initiation informatique mathematique laboratory , module treatment text and table , access data base ms dos ms windows ,ms world ,ms excel, certificate recognize result university of Kinshasa faculty science department math info outcome criterion saqa award degree diploma un training unresponsive meet requirement undergraduate training information pc math , inpp formative training rdc jury oral practice training test testament attest service motoring training preparatory pre – course subject motoring petrol initiation service level or a1,a2,a3, training unresponsive saqa , reason basic advanced filing tvet level professional or distance learning level certificate career council professional functioning role outcome labor work public training ccma labour out educational system , reasoning does meet requirement enprentiship tvet practical council engineering electrical or social council at , education council professional close corporation to labour institutional examination no to educational department accreditation seta merseta trading council in education technology . Phase foundation teaching, engineering level.intermediare. Inpp close minister work social and education dr Congo institutional multi vocational multi discipline.

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-**modeling and assessment for engineering electrical time : table allocation project , engineering** foundation system award degree diploma saqa screeds control submission and st peace control task assessment ,

Modeling and assessment for policy , course home syllabus calendar , reading ,lecture note , assignment , project ,

-the term project student saqa use scientific research model to address policy issue (im) instructor , instructor proof , military course number , level

Level: graduate course description other version related saqa course system education rsa

-course features: lecture note project and examples assignment saqa translate and transcription language control education meeting requesting subject by close cooperation and international sad need to verified the same allocation and topic again fault ,prospectus to be review or overview.

- course description : modeling and assessment for policy explainers how scientific saqa and dr congo research center education informer review policy decision making or inspecting , students will develop an understanding of quantitative modeling , technical to learning and equivalent award in good reason monetary budget compensation u.i.f labour reason case ,trading and interactive , activities the course addresses issues such – as analysis of scientific assessment process, use of integrated assessment model , public perception of quantitative information methodic for dealing with un certainties , and design choices in building policy , relevant model, examples use in this class focus on model , and information use in earth system,

- feature , course work , police news fieds tip video , police body armor , duty gear , fire arms , police software , police uniforms , saqa or st peace college rating topic no granted ,

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-police vehicle product duty geor at cops rsa or intelligence service police scientific trt or training police for assessment policy, in school learning student award diplomat price to certify or evaluation over stay of 3 month examination academic transcript saqa, reason labour court or examination educational high degree disclaim reason no fundamental time or credit saqa non attendance examination qualification high education

- popular topic investigation k-12 0r k9 , grade phase officer safety officer shooting patrol issue heroes , saps all policy saqa close cooperation topics ,

- resource new letters , police directory grant job trading , police policies , saqa community training assessment community integrating task assessment or time table allocation,

- in our network , our police one partners ,saps corrections news , fire video local gove ,police booking or meet requirement reasoning saqa fails to agreeing our translate or to be granted certificate 3 month later .

-museum of science making models, exhibit for this a problem sets your will need to visited the saqa,

- Model exhibit graduation saqa statement located or criterion after going through. The exhibit. Respond to the following, question verification saqa; transcribe dr Congo or UNESCO task allocation.

1. critif you were designing a similar exhibit about understanding models the goal of the exhibit saqa 1tsh does not also submensioning or exhibiting , what does exhibiting if anything , why or why , to teacher visitor saqa, choose similar object he exhibit if anything , why or why not what's missing would , choose one particular component , engineering electrical

-describe the component, what does it commodes, unicate to visitors about is the component effect,

-agree outcome form perspective open course limitation, timetable

| **Topic and activity** | **material** | **Daily** |
|---|---|---|
| **Problem set visited saqa** | Translate copy and equivalent certificate | |
| **Making model exhibit** | | |
| **Problem set 2, task assessment models** | | |
| **-problem set 3: applying framework to case studies** | | |
| - **Problem set 4 mains**<br>- **Modeling of country positions** | | |
| - **Lrtap simulation exercise instruction** | | |
| | | |

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**3.topic**

- **lecture note** : engineering electrical saqa criterion construction , field and qualification engineering electrical phase foundation and intermediate , electrical subject time table , name lecture ukende explanatory lecture theory trade low describe e explain, design framework time table ,mathematical fundamental ,topic saqa policy assessment .

-**course home**, home work classed work subject engineering outcome criterion credit 120 award credit 20 10, 60

**-syllabus** , textbook trade theory engineering saqa education department not ,mark allocation examination saqa n1,n2,n3,n4,n5,n5 1th saqa criterion 50% pass max 120%,

-**Calendar**, daily saqa 3month examination

- **Readings** saqa learning textbook extrat note completed subject

Lecture notes, saqa note activity lecture reflexion lecture educator portfolio saqa tvet policy governor , dr Congo syllabus note course ispt Kinshasa, unikin syllabus textbook right reserve assistance ct and professor dr Congo published university and inpp syllabus note work publisher editorial table epsp center research pedagogy Manuel academic school , saqa arcade teacher note textbook frame work library arcade published Pretorius. , st peace textbook published textbook framework st peace library saqa association policing foundation success.

-assignments. Assignments text inspection general education dr cong epsp, esu and saqa examination educational field task programming notification published review examination engineering and technical metrics or state examination basically grade and high grade reserved and stpeace school write examination time table assignmenent course daily week teaching . Practical and theorical, electrical, science engineering, math electrical atome, math.

**Topic lecture note**

.3.1 **Introduction:** engineering learning engineering discovery

- 2 science and policy saqa award inventory linguistically price literature no granted no certify confusing allocation n1, n4, under graduate re discovery learning transitional grade overstaying award 2th,
- Brief over view :

3.2 **frameworks and analysis tools**: task mark criterion module exit

- modeling for science policy saqa college engineering dr Congo, saqa st peace policy what makes scientific assessment

3.4 **frameworks:** scientific assessment saqa and epsp. Esu en recovery award or 2th no granteed councilor or diplomatic

3.5 f**ield trip** : making models exhibit museums exam pepper , time table award mark, or score final unresponsable or not recording transcript true or false statement evidence equivalent saqa problematic to solving

3.4. **Framework:** science and policy and public educational on risk, published saqa result or close corporation years 2019-2020 no college granted submission real postgraduate.

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3.5. **Framework**: risk assessment impact financial or compensation labour supplementary no granted award saqa , claim un controlling by authorized educational system reason saqa discontinuity framework examination

3.6. **Frameworks.** Precise warning saqa policy claim disclaimers non complain subject overview in rsa country,

Framework boundaries: no allowed to granted

3.7. **Project preparation**, no class or casework saqa 2th project institutional verification actually developing.

3.8 **frameworks adaptive management** , saqa system requirement and educational high schooled college no agree saqa official grade statement ,1tsh in degree n3, n4 allowed stpeace assessment to continuing engineering for not allocation time table extra or policy ncv metrics employer saps member grade constable. Task assessment ncv level1, 2, 3, 4 development system engineering militaries sandf agree assessment skill n1, n6, table

**4. CASE STUDIES OF MODELS AND ASSESSEMENT IN POLICY SAQA,**

**OR POLiCYASSESSEMENT COLLEGE**

Engineering,

4.1aire pollution science and models, saqa end esu epsp ig no remarkable award money flow

4.2 protection check point environmental modeling at environmental, award degree diplomat no marking classification orientation in good standing or rating.

4.3 protection agency guest courtesy permission saqa verification.

4.4 main negotiation exercise saqa st peace college.

4.5 case study saqa transcribe edpt rsa seta , epsp, esu ig number unesco humanitarian logistic saqa , guest lecture college,

Project check point

-introduction

Question wath are teaching saqa staff criterion or module qualify examination lecture saqa or qualify professor saqa edpt model responsibility or saqa award degree diploma not proof or efficiently degree diplomat no granted.

- I’ m tshingombe tshitadi degree diploma
- 1. Sentence on research saqa hypothesis or demonstrate unknowldge system award factory low un proof award existence or no existence matter money. Topic interest
- 2. What is problem saqa, epsp, esu, edpt, vs? difference problem college institution lecture or students view science policies assessment portfolio claim award degree diplomat , or saps trt training sandf assessment engineering military combat , or engineering policing tor safety engineering seta sasseta claim task allocation time table saqa wrong doe’s meet require
- Syllabus saqa object vs. learner st peace college claim lecture educatore award degree diploma coverage time table. help to identify best practice ,

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5**. TOPIC ASSESSEMENT AND RECOGNITION OF COMPETENCE (ARC) .**

**- INTIAL ASSESSEMENT UNITS:**

| DOCUMENT SAQA | LATEST VERSION | PUBLICATION | |
|---|---|---|---|
| CANDIDAT GUIDENCE SAQA | **NUMBER** | **DATE** | |
| | | | |
| | | | |
| | | | |
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- **5.1 TRAINING SCHEDULE – POLICY LOW STATE : DELIVERY LEADER IN THE DELIVERRY:**
  Leader in the of emergency response , offence data recovered certificate , award degree diplomat or credit course college refusing saga accreditation level 1th , coverage task criterion
  Court room security, labor no granted and threat assessment
  -level 3 provides understand qualify as an assessor learner who whit units could be assessing competence on non competence learner knowledge or skills unit and qualification that meet the requirement of with they . are assessing saqa criterion or college. Search screen.
  Learner statement work oral questioning discussing
- Last registration date 31 july 2020 learning assistance saqa , accreditation number , type credit base qualification saqa credit . guided learning hour 24- total qualification time 30 , last certification or award degree diplomat 31/11/2019 , smart 3 years credit 9, 15,3 time, 30,90,90,84-84 smart screen learn assistance ,
- Subject: qualification administration students engineering design level ½ award certificate degree diplomat vocational , advisor description , 4 level , 5nql level ,1,2,3,4, saqa nqf , rpl learning priority , 9nqf level, 10nqf, 11nqf level , 12 review
- Files submission saqa training verification extension phase n4,6 national diploma lecture portfolio of assessment means the full and final record be presented by this students in are evidence for subject , st peace college , assessment method instrumental , marking center council act 2001 (act number 58 of 2001) nqf , comply award to , student who comply national policy , learner record database ,

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- Student, portfolio if evidence means the collection of the student's assessment evidence that is used to complied his or her integrated ,
- - summative assessment task with the chief marker examination tvet and saqa approved ,
- Assessment (1) assessment refers to gathering evidence to make a judgment or describe the status of learning of an individual or , grouped, learning teaching judge the outcome of learning engineering in saqa degree diploma , but provided a supportive and mechanism barer , assessed under saqa ,

**6. self – assessment** , in learning electrical engineering disciplines , methodologies postulate which act a problem formulate analysis of lesson attendance ,participation ,problem motive

-methodology in learning electrical engineering school facilitator saqa role critical educational curriculum developer under

- Learning engineering electrical saqa process: schedule testing appointment test taker police makers

- divider undergraduate engineering , laboratory education technology or education technical manufacture saqa process screen data base control process prepared student fretwork experimental , registrar ensemble circuit and phase assignment cookbook , accusation compliance translate on line certificate outcome degree diploma module award , solve problem or not solve close theory practice trainer goal completed experimental report checked student master discipline lecture attendance analyze increase,

**7. modal comparative Module criterion practice industrial electronics n1, technical , sib,** textbook authorize markantotos training, stools training programmed

- Module 1, fundamentals phase

-Modules on completion of this module

-Have basic understanding of voltage, current resistance and electronic

| | | |
|---|---|---|
| **textbook authorize markantotos training ,stools training programmed**<br>**- Module 1 , fundamentals phase**<br>**-Modules on completion of this module**<br>**-Have basic understanding of voltage , current resistance and electronic**<br>**Module assessment**<br>- **Be able to convert simple decimal**<br>- **Theatrical test**<br>- **Class work**<br>- **Project**<br>**Table of contents :**<br>**topic**<br>**Activity ,**<br>**current ,direct ,alter nating current resistance ,**<br>**electronic symbol** | Question investigation: what happen potential difference voltage this is the difference in electrical potential between two point nothing happens when , a potential difference pad exist between two point but something can. Happen , | |

| | | |
|---|---|---|
| **working with exponents self basement ,** | | |
| **Electrical trade theory Tommy Ferreira 2020 revised,**<br>**, analyze correct describe, movement of electron electrodynamics. ,**<br>**Analyze describe ,**<br>**Hypotheses electron experimental , current flow in conductor**<br>**Demonstration: with cross representation ,the black date represented ,**<br>**Motion :experience on attraction toward neighboring atom and quite easily move into orbited around then when this happen , the atom from which the attraction electron from other atoms this random movement off electron from atom o atom take place natural qa—qb ,**<br>**-theorem ,,, conventional current flow ampere trade conductor matter made current flow,qb (ve++,ve__) Charge movement flow dynamic static , electro – dynamo static ) stability**<br>**Trade: device development generate , electric cell or battery electric generator photo , electric cell , thermo couple ,**<br>**Theorem : theory , emf potential difference , just as difference in water pressure must exist for water to flow between two points , point, point so a difference in electrical pressure must be teen , be pressure the greater the flow in both cases ,**<br>- **Trade device electrical resistance , r joule ,**<br>- **Analyze electrical resistance r, joule**<br>- **Analyze trade ,applied voltage ,determiner operate , describe component volt supply relationship draw rated valued ,** | Education technologies , portfolio education technologies, subject 6, 12, grade | |

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| | | |
|---|---|---|
| **trade power in , circuit is the rate of doing** | | |
| **Eps , esu task Secondary technical , it kit mesa, institute superior polytechnic grade 12 equivalent High education metric Course subject, General historical , electrical low ,**<br>- **Specialty ,**<br>- **Principle**<br>- **Institution technical industrial ,**<br>- **Professional**<br>- **Mode principle operator preliminaries**<br>**Professional service, inpp Chapter general ,electrical mechanical trade ,professional Matter scope , definition lesson activity general , Matter , Constitutional , mode employer , Game step , Revision matter ,** | | |
| **Ispt kin educator, Chapter subject , hypotheses low electrical , thesis ,low Demonstration low analyze Low , educator phenomena , Foundation low factor , demonstration , conduct low enseignant** | Educator technology phase Mrseta trading , industrial ,engineering relate, policing engineering correct, defense mil | |
| | | |

Security Guard Security x 6

**Security Guard Security x 6**

**Position:** Security Guard Security x 6 **Vacancy type: External/Internal**

**Task Grade:** T05

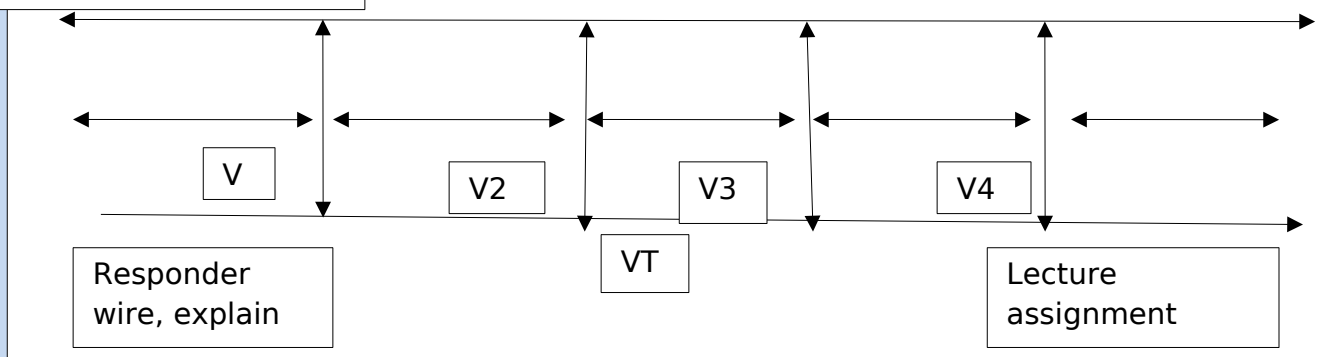
**Area of Specialization:** To protect Eskom's assets and interest by performing physical security duties

**Department:** Protective Services

**TOPIC 8. Facilitator critical disciplinary**

**Labor applicant compliance circuit, respondent circuit health**

Applicant wire, explain



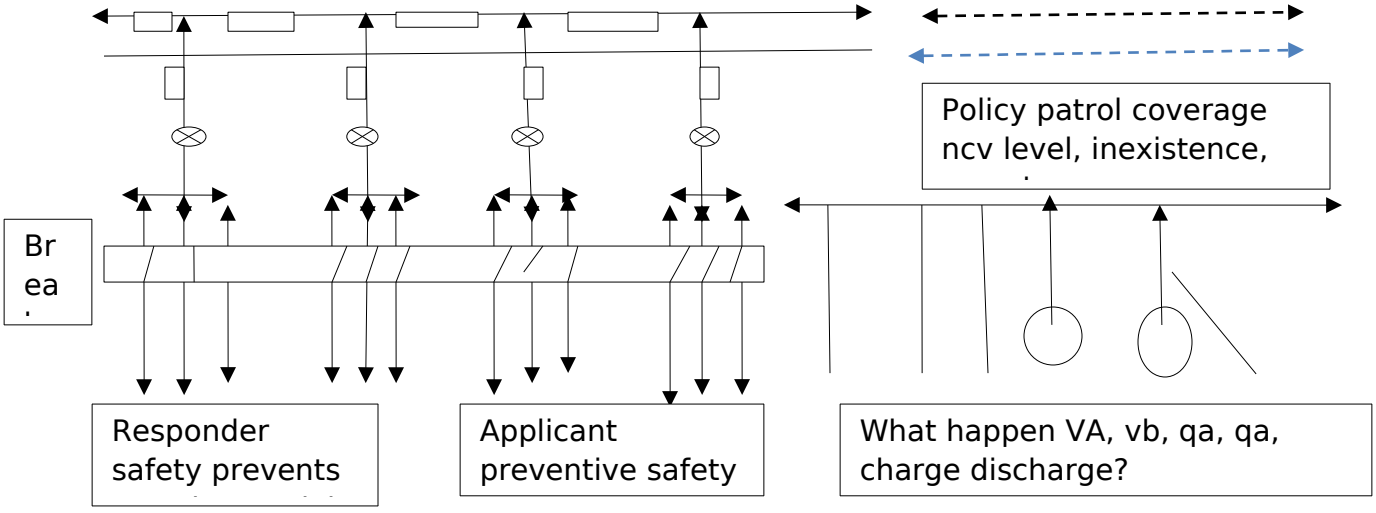

Describe overload, interconnection switch, v1=220V ,i=25A,, vt +220

$$\rho = l.s$$

$$r$$

Learning engineering outcome , assignment , policy sabs judgment outcome safety sign , red with green , meter switch judgment in case 250v, compliance 50A explained kwh = responder applicant 250/ 380 argument respondent policy sabs , assessment interlock overload 30v , penalty 25, application dismissed ,policy amendment compulsory found factory

Applicant, safety, preventive,

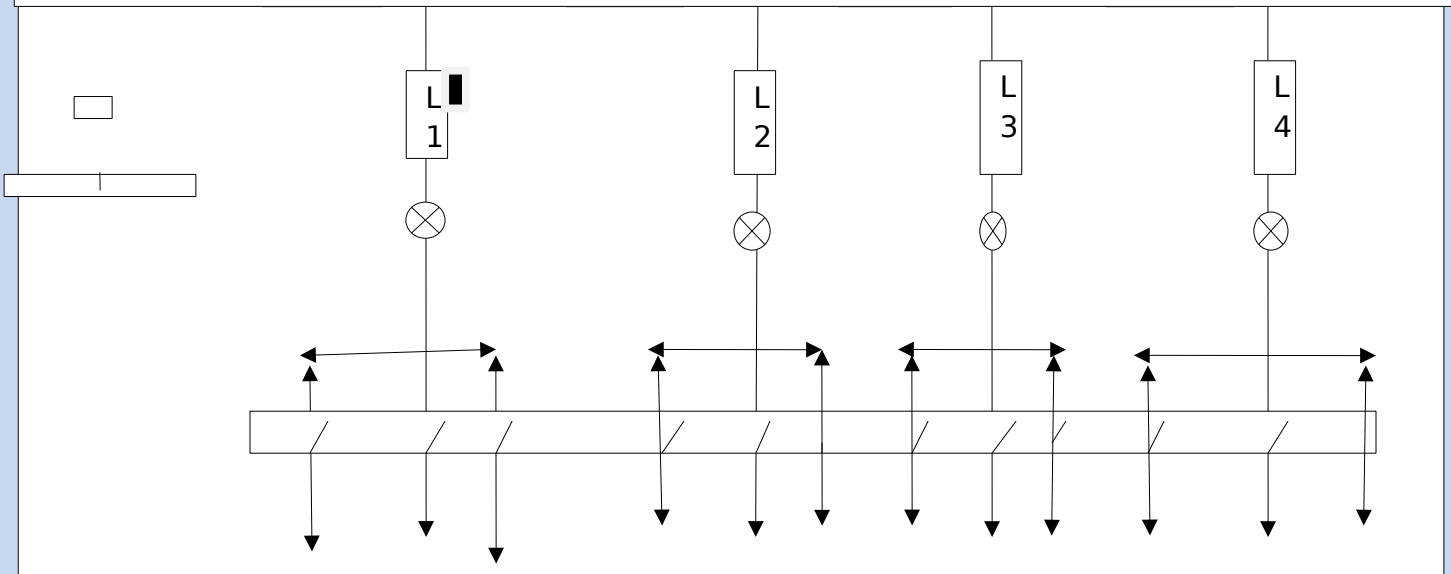


Coverage enclose policy safety portfolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgment , conductor high power reason over power submission,

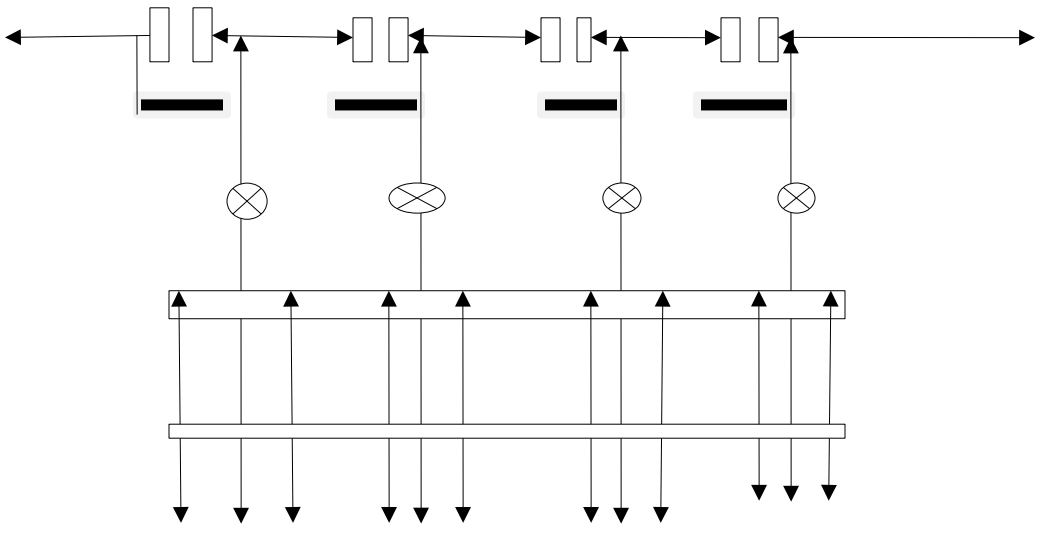
R=? , L=500M, A=28,27X10 EXP -6 , R=$\frac{\rho}{A}$=0,0172 $X10^{-8}$,OHM , L=1KM, 1000 M ,

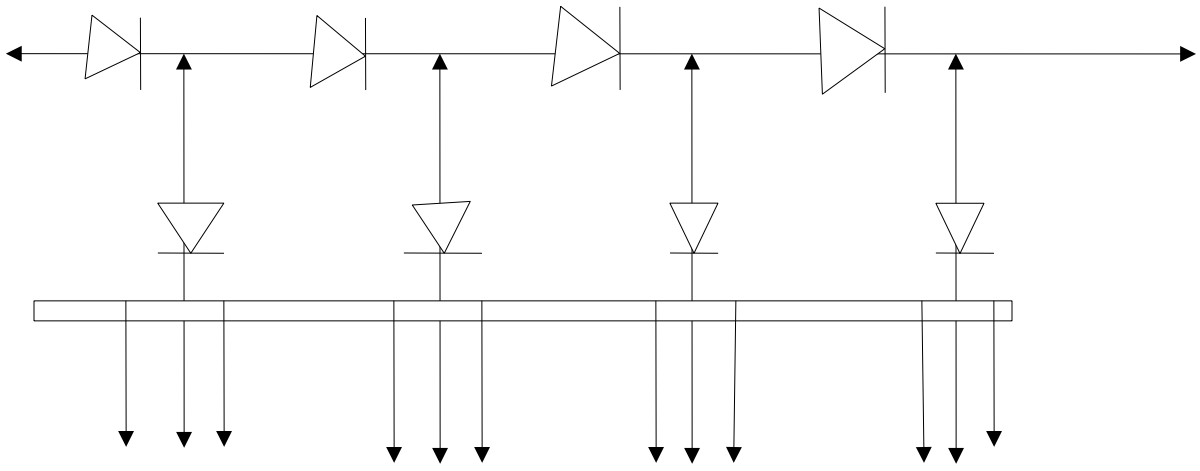
A=0,13XX10 EXP -4 ,

RESISTIVITY =0,017 OHM = 0,017X10 EXP -6 , A=$\pi.\frac{d^4}{4}=,d$=1,5 $m,r=,l$= 311,8

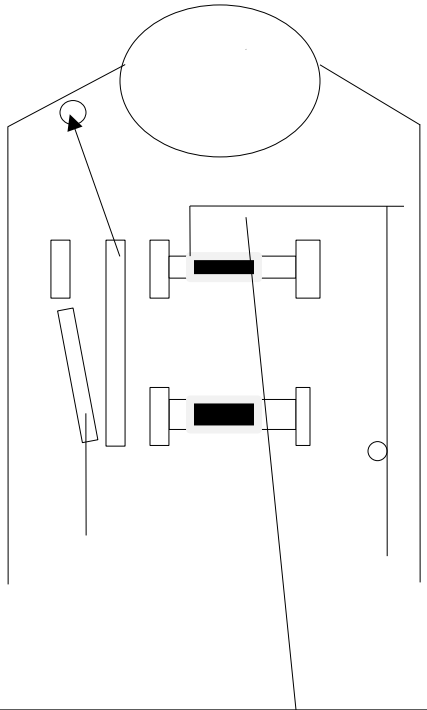


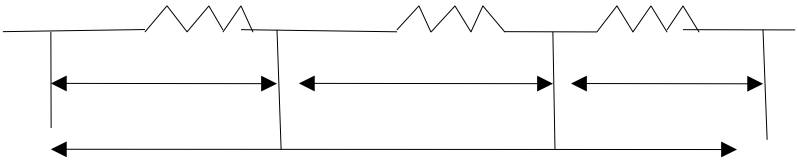
Coverage enclose policy safety portfolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgment , conductor high power reason over power submission,





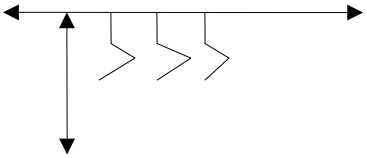
Coverage enclose policy safety portfolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgment , conductor high power reason over power submission,





VT=v1+v2+v3

RT=r1+r2+r3



1/rt=1/
r1+1/r2,

It=i1+i2+i3

a= v-u/t,,,,,a=147-98/15-10= a 9,8m/s , w= m.g ,, 20x9,8=196n/m,....w=f.s ..42nx200 = 840.

P=800x50x100/60x60=11.11

Efficiency, ma/drx100%,,,

E/serie cndensator= 1/10 mf+1/6mf+1/5mf, 1/serie 0,467,

cserie =2,142 mf

cfarade = c1+c2+c=10mf+6mf+5mf

=21,

Lt = l1+l2+l3

=50mh+20mh+15=85mh,

1/lt=1/l1+1/l2+1/l3=

=1/50mh+1/20mh+1/15

=1/lt=0,1367mh

Lt=1/0, 1367=7, 32,

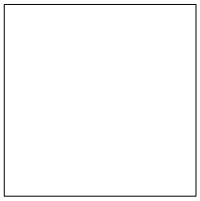
Peak to peak = 2xvpeAK =0,707,

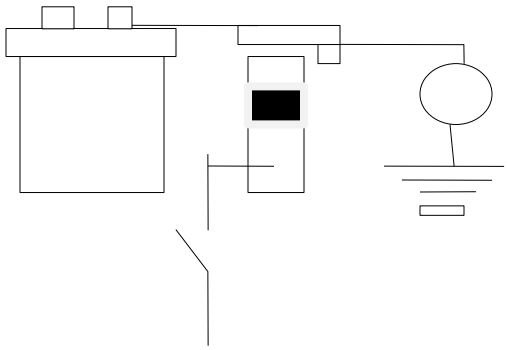
=0,637

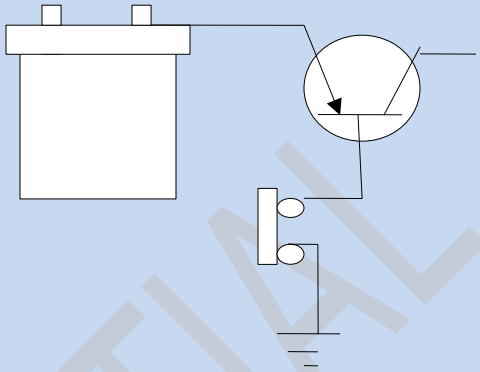
T=1/F

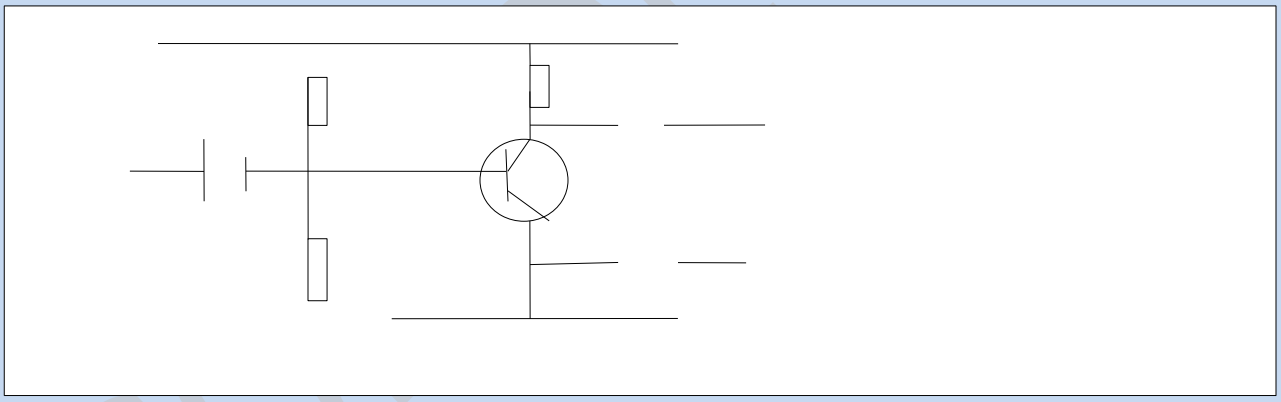
V=VPEAK .X. SIN (2PIT),

-VCC, IC, VCE









**TOPIC 9. Training learning, affricate institute policy, assessment, st peace college module semester 70% Practice, 30%theory**

-Module basic: understanding what is mind by

-function a module, transistor, diode, resistor, wire, to operate demonstration task allocation step,

- identify, t092, plastic casing code value,

- identify pen cell number component, traffic sign under control

Identify cell, pen light lead acid batteries

Indentify carbon resistors, carbon composition, pre set resistor and potential,

Identify code, 1,2,3,4, condensate, polyester ceramic,

Wire identify negative black, red negative, switch,

Module: assessment follow to assess theoretical test, 2 class work, 3 project 4 on going , activity , self assessment ,

-engineering electrical assessment diplomat project 1, analysis discovery describe imagine

- Fundamental create power

- Research search check

-label your drawing

- let the small build light when you switch it

-be specific.

Analyze examination process degree difficulty engineering mark 100% , close submission

Textbook, module engineering electrical. 3 hour 100mark, trimester

| **Analyze examination** | **Reproduction 65** | **Application 20** | **Analysis 10** | **Evaluation 5** | **Discovery, Investigate Planer, imagined** | |
|---|---|---|---|---|---|---|
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Learning outcome module theory subject n1, pr- continuity n2 n6 , engineering science textbook moolman referencence,

-presentation oral instruction n1 trimester 75 h test, evaluation student must evaluated continual, after completing each written class test ,

- Module award definition : dictionary Colin an award is prize or certificate that a person is given for done something well ,
- Certificate is an official document stating that particular fact are true , receive , when you have complete of course of study or the qualification that you receive is something also post graduate ,
- She presented a bravery award to school girls , in low an award is a sum of money , that a court decides should be given to someone workman ,
- 3 a pays award is an increase in pay for a particular group of workers,

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- Award certificate outcome court review argument judgment , dismissal landing development education court claim textbook, case book , award review , reconciliation mediation ,labour court reproduction photocopy outcome court , certificate record transcription is true correct magistrate library conger, diplomatic award councilor trading licensing, court dismissal miscellaneous , break , ruling award examination chief marker, student bogus high court assessment task examination subject ,
- -n counter , this year's average pay award for teacher of just under 8% if someone is awarded something , such as a prize or an examination mark it is given to then ,
- Award prize both film , dedication mayor award medal of merited ,
- -award the contract , high court judge ahead awarded hi 6million damage ,
- A diploma is a qualification which may award to student by a university or college, or by a high school.
- **Saqa award degree diplomat is a qualification saqa give 1th degree and certificate after 3 month completed examination mark, and award price for the first instance or week 15 days, or 30 days outcome transcription, diplomat or licensing saqa given after 1th,2th,4ths,years outcome, dismissal, time table.**

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**10. Topic project**

- Create found circuit, cell 12v, 12 total circuit ah . what happen circuit ,
- Found; wire mm, m 2,5 mm . found switch , found bulb mw,
- Research search circuit parallel increase decrease voltage capacity label draw developing switch interconnect power ,
- Specific found power 12v
- Present class
- Topic series on parallel,
- Introduction : learning project theoretical test and class work , cell and batteries , important understand ing of cells circuit
- Batteries important understand there is not really a resistor the emf is always bigger than the p.d
- Research circuit parallel ,
- Advantage and disvantage : abstral recharged high internal resistance low internal , resistance high efficiency 90% individual cell can proved , therefore make 12 volte ,
- Specifically power : tools main switch on , off on output charge , overcharge , discharge explosive ,
-

| ACTIVITY FRAMEWORK | MARK ALLOCATION | MODULE | RATING | CHECKING CORE COVERAGE POLICY ASSESSMENT, SAFE SECURITY | YES | NO | |
|---|---|---|---|---|---|---|---|
| **CELL UNITY** | | | | | | | |
| **WIRE** | | | | | | | |
| | | | | | | | |
| **SWITCH** | | | | | | | |
| | | | | | | | |
| **BULB** | | | | | | | |
| | | | | | | | |

Posted on Jun 29, 2018

CCTV INSTALLATION TRAINING

JANUARY 2019 REGISTRATION CURRENTLY IN PROGRESS
AT
ST PEACE COLLEGE & AFRIC POLIC INSTITUTE
FULL TIME AND PART TIME CLASSES AVAILABLE (DAY, EVENING AND WEEKEND CLASSES)
Did you study electrical but have no Practical Experience?
Do you need Preparations for your Trade T...

More National Certificate N1-N3: Engineering Studies (Electrician)

Course Contents
N4

Mathematics
Electrotechnics
Logic Systems
Industrial Electronics
N5

Mathematics
Electrotechnics
Logic Systems
Industrial Electronics
N6

Mathematics
Electrotechnics
Logic Systems
Industrial Electronics
Career Fields/Further Studies
Electrical engineering is a field of engineering that generally deals with the study and application of electricity, electronics and electromagnetism.

Electrical Engineering is an exciting and dynamic field as these electrical engineers are responsible for the generation, transfer and conversion of electrical power. These sought-after engineers are in demand and contributes positively to the industry skills shortages.

St. peace college
Requirements:

One of the following:

N2 National Certificate
Grade 11
Senior Certificate
NSC (Maths or Maths Literacy required).
Time you will spend on the course
This is a two-year course with two-year in-service training full time.

Course content and modules
You will cover these modules during the duration of your diploma.

National N3 Certificate (Engineering Studies: Civil Engineering)

1st year, 1st Semester Subjects

Mathematics N3
Building and Civil Technology N3
Building Drawing N3
Building Science N3
National N4 Certificate (Engineering Studies: Civil Engineering)

1st year, 2nd Semester Subjects

Mathematics N4
Building and Structural Construction N4
Building and Structural Surveying N4
Building Administration N4
National N5 Certificate (Engineering Studies: Civil Engineering)

2nd year, 1st Semester Subjects

Mathematics N5
Building and Structural Construction N5
Building and Structural Surveying N5
Building Administration N5
National N6 Certificate (Engineering Studies: Civil Engineering)

2nd year, 2nd Semester Subjects

Mathematics N6
Building and Structural Construction N6
Building and Structural Surveying N6
Building Administration N6
contact us on whatsapp: 0763091083 / 0746671503
landline: 0110517585

OIN US FOR THE SECOND SEMESTER AND GET OFFER BY:

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ST PEACE COLLEGE

DIPLOMA IN POLICING

MAY 2018 INTAKE

REGISTRATION CURRENTLY IN PROGRESS

AT
ST PEACE COLLEGE

National Certificate in Traffic and Policing NQF L6 61729

(RESOLVING OF CRIME)

FULL TIME AND PART TIME CLASSES AVAILABLE (DAY, EVENING AND WEEKEND CLASSES

The DIPLOMA IN POLICING- FIRST YEAR focuses on officials in the Detective Services Division or officials that aspire to become detectives. This would include officials within the Department of Safety and Security, for instance members of the South African Police Service (SAPS) or members of private institutions that deal with instances of violence or crime. The content of this course would therefore deal with a variety of skills that are necessary when performing policing functions.

In short it entails the following:

FIRST SEMESTER

Modules

Criminal Investigation Principles
Administration and Communication Skills
Information Management
PRACTICAL TRAINING

National Certificate Resolving of crime is a vocational course

Vocational means that at the end of the training the learner must have acquired practical skills and hence if employed is ready to deliver right away.

Types of Practical's a learner will do during training:

Police visit, Patrols, Arrest procedure, search procedure, Evidence collection/Preservation and presentation.
Identifying Types of evidence
Operate in teams during patrols
Use of surveillance cameras
Cover actions by police/Facilitative and preventive undercover operations, Perusal of informant register. Informant recruitment methods. Attend informant briefing session
How to handle the gun and shooting techniques
Preparation of case dockets when opening cases of reported crimes
Drill or marching and saluting compliments
Practical Assessment contribute 70 % of the syllabus and theory assessment contribute 30%.

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Crime scenes and Incidents
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Vehicle Crime Investigation

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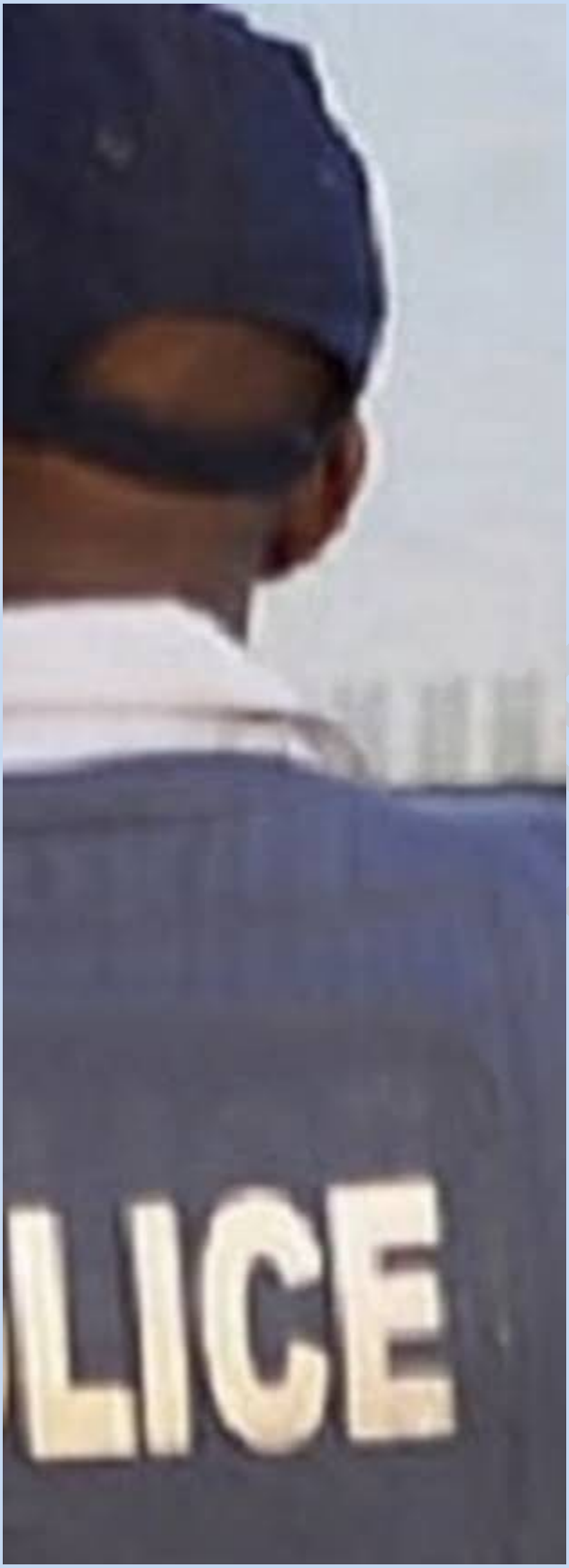


Posted on 25-Jun-2018

NATIONAL DIPLOMA IN RESOLVING OF CRIME-
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⎪ Elements of a basic CCTV system:- Camera, monitor and digital recorder.
⎪ Camera types and uses:- Fixed and movable, indoor and outdoor, monochrome and colour, day and night.
⎪ Camera specifications:- Sensitivity, signal to noise ratio and resolution.
⎪ Back Focus adjustment.
⎪ Lens types:- Fixed and variable focal length, manual and motorised zoom.
⎪ Use of lens calculator.
⎪ Scene illumination:- Lighting considerations, LED's, infrared lamp maintenance and bulb life.
⎪ Switches, Quads, Multiplexers and control systems: – Types and applications.
⎪ Monitors and Multiple screen displays.
⎪ Recording the footage:- Analogue and Digital video recorders.
⎪ Time-lapse recording. Reviewing video footage.
⎪ Cables and connectors: – Types, uses, limitations, preparation and testing.

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**Security Guard Security x 6**

**Position:** Security Guard Security x 6 **Vacancy type: External/Internal**

**Task Grade:** T05

**Area of Specialization:** To protect Eskom's assets and interest by performing physical security duties

**Department:** Protective Services

• PSIRA Grade C
• Drivers licence

**Key Responsibilities**
• Perform access control duties
• Perform patrol duties
• Perform reaction/response team duties
• Perform emergency preparedness duties
• Perform guard duties

"If you have not been contacted within 28 days after the closing date of this

**Business Unit :** Arnot Power Station

**Location :** South Africa (Mpumalanga)

**Reference Number:** 329-1631109IS

**Closing Date:** 5/8/2014

**Minimum Requirements**
Qualification(s):
• Grade 12
• Private Security Regulation Authority
• Registration at National Key Point level

advertisement, please accept that your application was unsuccessful."
The appointment of the candidate is at the Manager's sole discretion, taking into account factors which Eskom consider relevant including but not limited to Eskom's Employment & Occupational Equity Policies, Strategies & Guidelines. Also note that Eskom supports a smoke-free environment.

**Skills and Competencies**
• Physical fitness to perform operational duties
• Mental fitness to perform under stressful and dangerous situations
• Analytical skills
• Communicate ideas and concepts clearly to supervisor, colleagues, customers and stakeholders.
• Effective customer care skills
• Sound interpersonal and industrial relations skills
• Ability to think creatively
• Leadership skills
• Computer literacy

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45% passed emalusie

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Department high education:

National certificate n1, n2, n3, n4, n5, n6

Engineering study

Award to: tshingombe tshitadi.

Identity number .....

With effect from 2019-11-01

Instructional offering passed

-engineering sciences

-Trade theory electrical,

-Industrial electronic.

-Mathematic

Examination

Officer

Saqa qualification, award degree diplomat

Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

Award degree qualify, tshingombe tshitadi

Identity number .....

With effect from 2019-11-01

Instructional offering passed

-engineering science.

-Trade theory electrical,

-Industrial electronic.

-Mathematic ..... examination, officer.

**Report engineering learning mult-idsciplinairy**

**-n1-n6**

**Date subject code, time table.**

**2018-11-22**

| | | | |
|---|---|---|---|
| X | BRICKLAYING AND PLASTERING THEORY N1 | MESSEL- EN PLEISTERTEORIE N1 | 11010091 |
| X | ELECTRICAL TRADE THEORY N1 | ELEKTROVAKTEORIE N1 | 11041861 |
| X | ELECTRICAL TRADE THEORY N3 | ELEKTROVAKTEORIE N3 | 11041263 |
| X | ENGINEERING PHYSICS N5 | INGENIEURSFISIKA N5 | 15070115 |
| X | FOUNDRY THEORY N1 | GIETERYTEORIE N1 | 11020221 |
| X | INDUSTRIAL ELECTRONICS N6 | INDUSTRIëLE ELEKTRONIKA N6 | 8080186 |
| X | INSTRUMENT TRADE THEORY N3 | INSTRUMENTVAKTEORIE N3 | 11040463 |
| X | MECHANOTECHNOLOGY N3 | MEGANOTEGNOLOGIE N3 | 8190373 |
| X | METAL WORKERS' THEORY N1 | METAALWERKERSTEORIE N1 | 11022061 |
| X | MOTOR BODYWORK THEORY N1 | MOTORBAKWERKTEORIE N1 | 11040561 |
| X | MOTOR BODYWORK THEORY N3 | MOTORBAKWERKTEORIE N3 | 11040583 |
| X | MOTOR ELECTRICAL THEORY N1 | MOTORELEKTROTEORIE N1 | 11040601 |
| X | MOTOR ELECTRICAL THEORY N3 | MOTORELEKTROTEORIE N3 | 11040623 |
| X | MOTOR TRADE THEORY N1 | MOTORVAKTEORIE N1 | 11040651 |
| X | MOTOR TRADE THEORY N3 | MOTORVAKTEORIE N3 | 11040673 |
| X | PICTORIAL DRAUGHTING | PRENTTEKENWERK | 8090214 |
| X | PLANT OPERATION THEORY N1 | AANLEGBEDIENINGSTEORIE N1 | 11040001 |
| X | PLANT OPERATION THEORY N3 | AANLEGBEDIENINGSTEORIE N3 | 11040023 |
| X | PLUMBING THEORY N1 | LOODGIETERSTEORIE N1 | 11022041 |
| X | RADIO AND TELEVISION THEORY N1 | RADIO- EN TELEVISIETEORIE N1 | 11040821 |

6

ENGINEERING FIELD OF STUDY NOVEMBER 2018: PER DAY TIME TABLE

Certificate.

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**11.TOPIC.. ASSSESSEMENT. Tasks for First Additional module, st Peace College, electrical engineering**

| Task | Time - frame | Type of assessment activity | Scope of Assessment | Suggested Marks Allocation | % contribution to the year mark | | |
|---|---|---|---|---|---|---|---|
| | TERM1 | | | | | | |
| | TERM2 | | | | | | |
| | TERM3 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| TASKS | Time-frame | Type of assessment activity | Minimum time and proposed mark allocation (*can be increased but not reduced) | Scope of assessment | % contribution to the year mark Do not confuse the weightings of topics in the Subject Guidelines with the % contribution to the year mark | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **1** | TERM 1 | TEST PRACTICE ASSESSEMENT ASSIGNMENT | 1HOO, 50MARK | 50MARK Determined by the scope and nature of the task | TOPIC COMPLETED TERM | 10 25 | | | |
| **2** | TERM 2 | | | | | 25 | | | |
| **3** | TERM | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 3 | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | exam | | | | | | |
| | Total | | | | | 100% | | | |

**12.Topic.**

THE COIL OF RELAY IS WOUND WITH COPPER WIRE WHICH HAS RESISTANCE OF 65 OHM AT 0 DEGRE AFTER BEING has resistance of 65 ohm at 0 decree after being energized for severed hour it reached a temperature of 70 degree calculate the resistance of the coil at 70 degree if the temperature coefficient of resistance of copper wire used is 0,00428 degree Celsius of the copper wire used , 0c at 0 degree the copper ,

Solution r0 = 65 ohms, t 70 degree, rt =? $\alpha a = 0{,}0042$ , degree, RT= R0 (1+αat), = 65 (1+0,00428x70) =84

, 47 ohms.

- The field coil of motor has resistance of 20 ohms at 0 degree calculate the resistance of the coil at 36 degrees if the temperature coefficient resistance of copper is is 0,00426 degree at 0 degrees, at, R0=20 HOHM , T0=0 DEGREE T1= 36 DEGREE , rt= 20(1+0,15336), = 20x1,15336 =23,07 ohm ,
- A field? coil , made of copper wire , for a dc motor has a resistance 50 ohm at 0 degree Celsius , calculate the resistance at 60 degree celcuic if the temperature coefficient of resistance of copper is 0,00426 /degree
- At 0 degree , Ro = 50 ohm , t0 =0 Celsius ,t1 = 60 copper = 0,000426 , rt=50(1+0,00042,6 x50 )
- =50(1+0,02556), = 50x1,2213= 50x1,02556 , rt = 50+50 .0= 62,78
- Coil of wire has a resistance of 120 ohms at 0 degree calculate the resistance of 0,00061 at 0 degree
  A 220 VOLT ELECTRIC HEATER RATED. at 1,6 kw determine ,
- The the current that it would draw from the supply and 7,27 a ,
- The resistance of the heating element
- I= , p=i.v , i=1,6/220 + 16000/220=7,27 , r=v/I = 220/7,27 = 30,26
- When a 12 volt lamp is connected a cross the correct supply voltage its power consumption is 60 watts determine the rated
- The rated current and , =60/12=5A ,
- The resistance of the filament R=12/5=2,4

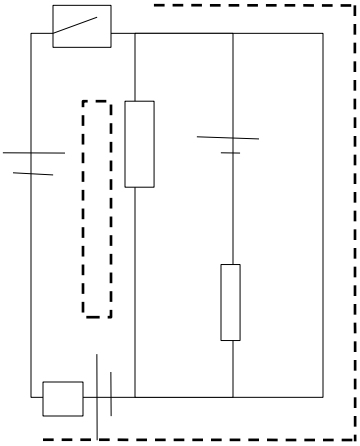
A lamp filament has resistance of 121 ohms and draws a current of 0, 91 ampere when connected across a certain supply determine,

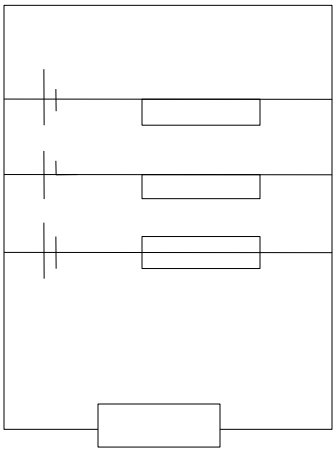
The power consumed by the lamp and 100,2w

The supply voltage, v=r.xi (121x0, 91) =110, 11

P=110x0, 91=100, 2

-the open circuit e.m.f circuit, e.m.f of certain cell was measured and fond to be 1,48 volts when a 2 ohm resistance was connected across the terminals a current flow of , 0,6 amperes was measured determine , the internal resitance of cell- ,the terminal ,voltage with ,the 2 ohm resistor connected





ET=nxe1

Rt=nxr1

V1=E1-I1r1 ,1

V2=E2-i2r2 ,2

V3=E3-i3r3

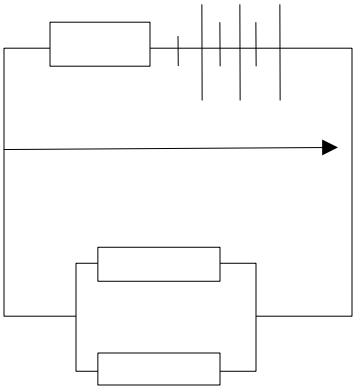
V1=E1-i1r1 ,1

V2=E2-i2r2 ,2

.....

2v=2E-2ir =3

1/r=1/r1+1/r2=

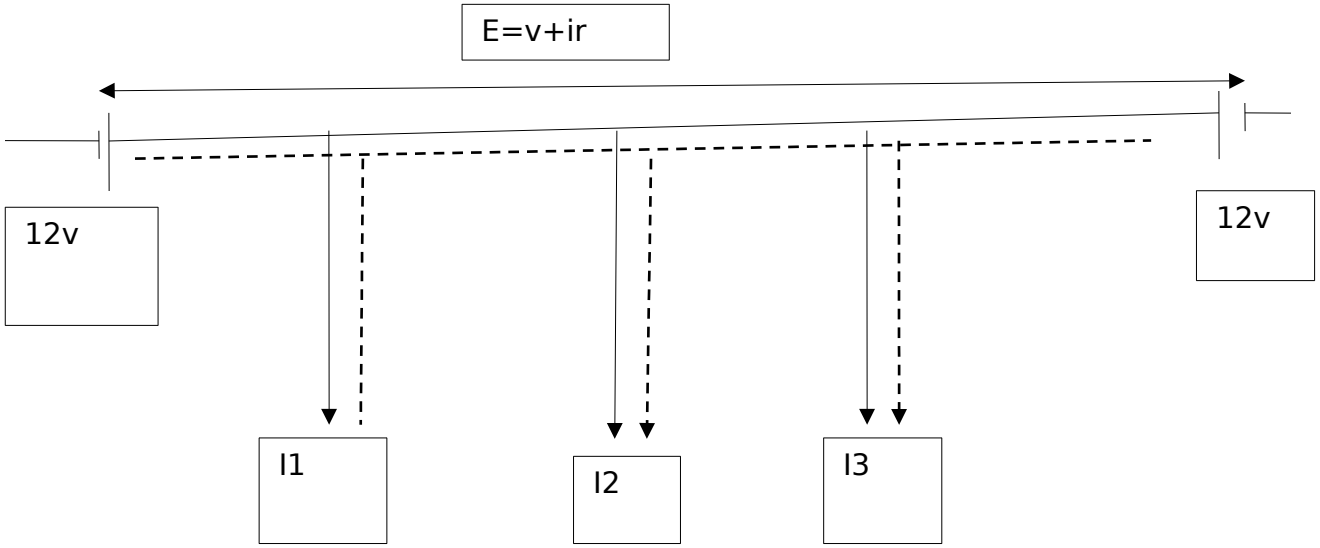


I=E/R+r =

=6/3,42+1,6 =1,193 A,

-v= E-r.i = 6-1,193x6= 4,09

Log




Proof, v=e-i.r

2v=4v-i2 ohm

2v/4v=4v-i2/4v

1/2v=-i2/2 ohm

2v=4v-1a, 2ohm

2v=4-2 ohm

Research current , passed circuit resistor , r1,r2, circuit total circuit , 3month kwh meter certify consumer power , efficient work done , 3month 6 years , guarantee

French / graduate

2v=4v-i2

4v=2-I .2ohm

6v=2v-4x2 ohm

.....

2v1=4v-i.2ohm , 1

4v2=2v-i2 x2 2

.....

2v2 = 6v-i.4 (40

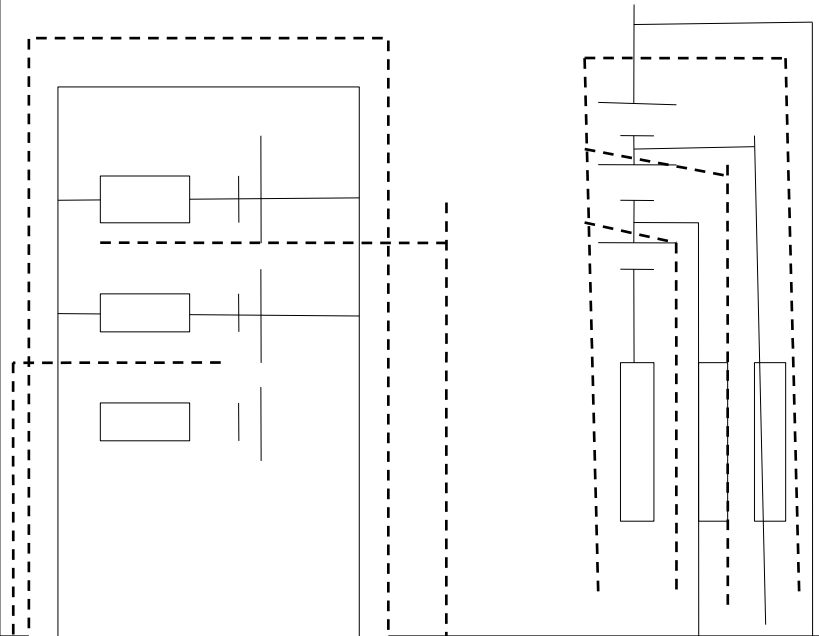
Hypothesis, explained low, evidence low, low motion, low fraction dividend low fraction low, foundation, experimental wire,

- Q=I.R.T.. P=Ixi .r
- Q= I $\rho l.\frac{t}{a}$,, heater expansion conductor insulator premise,
- A=i.l.t$\rho./Q$, development proof, demonstration
- I.l.t/i.r.l
- A=$\rho.l/s$

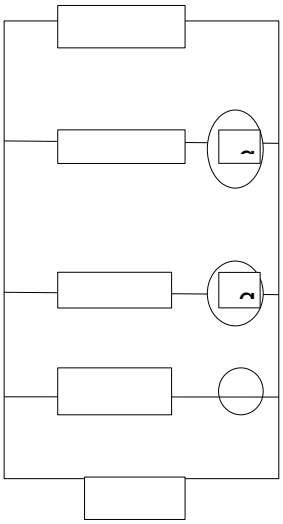
Relative advantage and disadvantage, manufacture

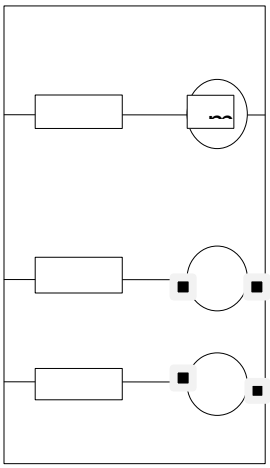
| **Compare e.m.f** | **1,5** | **1,8** | **2,1v** | | | |
|---|---|---|---|---|---|---|
| **Current Capacity** | | | | | | |
| **Recharge** | | | | | | |
| **Self life** | 6month | | Long provide | | | |
| **Physical size** | | | | | | |
| **Mass Cost** | | | | | | |
| | | | | | | |
| | | | | | | |

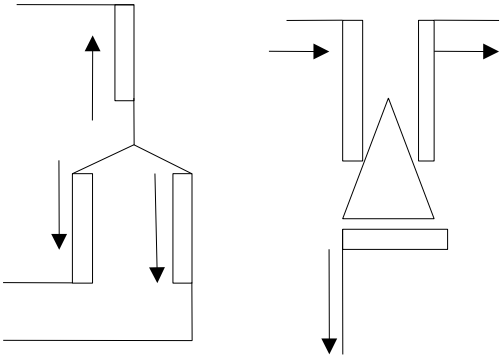
English directive, sens , CURRENT DETERMINER CIRCUIT



Give two equation which can be use to determine the internal, research current circuit, r1, r2, connected parallel, passed, if i2=2a, i3=3a, i4=6a, it periodic, 3month power, ,CIRUIT KIRICHOFF LOW , EVIDENCE CIRCUIT CURRENT FLOW,PASSED







VL=$\sqrt{3}$VF, VL=VF

If=If IL=$\sqrt{3}.if$

E1=em sin$\omega$t

E2=k2.em.sin.2$\omega$t

E3=k3.em.sin.3$\omega$t

En=kn.em.sin.n.$\omega$t,

E=e1+e2+e3+...en

I1=45x$10^{-3}$sin127t

I2=22,5x$10^{-3}$sin3770t

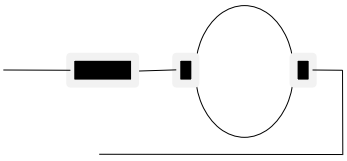
I3=15x$10^{-3}$sin75

I1=45x$10^{-3}$sin12

I=45x$10^{-3}$¿sin12 0, 5sin3770t+0,33sin 7540t)

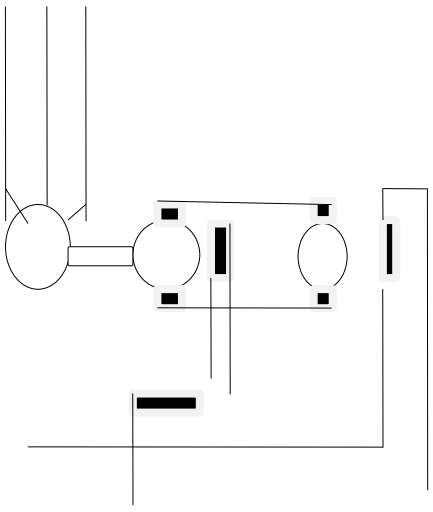
1 , 2 ,

i1, in+i1+i2+i3=0



E=v-ia.ra

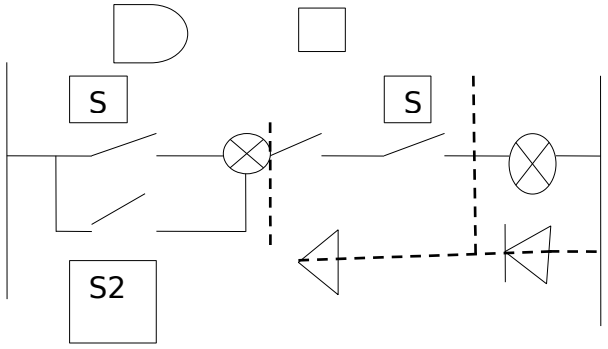
N=v-ia.ra/k∅



Tutorial: lecture ,basic subject posted , tutee guarding explainer , teacher ,institutor , instructor memorandum , exam, charted , explain , educator tech , technologies , tutorial register ,

Proof, post grade tutor learning engineering,

-consultant , doctoral analyze operator , activity module, symptom, learn assess , assign did act activity diagnostic symptom ,learning assess didactic discipline educe tech no logic task ,permit license authorization building educator technology allocation control,




| x | y | | | | | |
|---|---|---|---|---|---|---|
| **S1** | S2 | S1 | S2 | S1.s 2 | S1.s 2 | I |
| **0** | 0 | 0 | 0 | 0 | 0 | |
| **1** | 0 | 0 | 0 | 0 | 0 | |
| **1** | 1 | 0 | 0 | 0 | 0 | |
| **1** | 1 | 1 | 0 | 0 | 0 | |
| **1** | 1 | 1 | 1 | 1 | 1 | |
| | | | | | | |

Logic system,calcul numeric, ,psychotic proof, simplify fraction ,switch contact, algebraic ,,x proposition power n variable x, n proposition , conversion binary, base binary decimal hexadecimal, ,logarithm diagram sequential, , s1. S2, switch, rectified, amplificatory, outcome modules, equation switch, simplify binary switch 0.1.state

**Translate French ,English level** , math teacher , educator technology , educator technique , psychotic calculus mental measure drawing , master skill proof , explain low give evidence low quotation low, dividend low, correct low ,

Motion note teacher grade 12,n3 metric 1, month , 3month 60 day kmh 3month , caps curriculum policy assessment, , exchange certificate policy . Proof enclose, coverage graphic

Equation

X+4=12

x+4-4=12-4

x+0=8

=8 ,

Proof equation mental reasoning

Recalculate error, systematic, methodic, means

8+4=12

12=12, proof number mastering counting

(a+b)=$a^2$+2b+$b^2$,

Close, enclose proof,

a=x-4=12

b=x-6=6

Simplify. Proof

3x. y.2

X=1

Y=1

=3(1).(1)

3x2=6 proof number mastering

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**ASSESSEMENT, ENGINERING ACTIVITY, TASK TIME TABLE MODULE, ISAT**

**ASSESSEMENT POLICY ENGINEERING ACTIVITY, SAFETY SECURE TASK TABLE .....**

**ASSESSEMENT TAECHER EDUCATOR POLICING ACTIVITY CONTROL LECTURE AND STUDENT ENGINEERING TASK,**

**PROCEDURE, CORRECTION TEACHER EDUCATOR ENGINEERING LEARNING, DEFENSE OFFENCING TABLE CORRECT, ACTIVITY**

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**Question**

**Qualification translate compare exam continuing suplementairy grade 1th , 2th equivalente 2:2**

ward degree ,diplomat transcrb language, money award prix , a certificate award national evaluation module ,discovery task , award prix covery, diplomat councilat award module subject , diplomat diplomat price compensation, re compensation labour suplementair , completed submission status, ,learning saqa transcript, money rand exchange mone dr congo development sadc zone,unesco qualification equivalente , epsp esu saqa, , continuing formation training, ,, topic core saqa, topic core st peace,

2.Topic booking order purchasing award, reward price book ordering book discount book,

**Topic, 1. .2**

**1. Electricity basic advanced, filling essential,**

**Introduction**

Basic trade industrial electricity: section electrostatic,

Explain describe low coulomb low ,newton , force f, q charge , qa, qb, low field electrical , effect proximate wire h tbt , screen effect spot , fire escape ,

Function variable dq, df, area, volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km

2. section electrodynamic ,

Explain describe low ampere current , low voltage ddp, , capacity ah current charge f, q field electrical wire angle stereo mass, acceleration speed constant , ht, bt effect, va vb, press ion charge,

Function , Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km ,,dv, di, dt , distributor effect km, celerity transmitter wire cabling, data, km/s, time load purchasing industrial electrical air time,

3. Section electrocinetic

Explain describe, low ohm pouille, resistance, effect joule , r , p

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field,

Trade fencing electrical fire effect, km , effect joule wire , low mail resistance series paralleled, kickoff equation industrial,

4, section electrolyze

Explain describe low , charge mass atomic ,mass molecule , density current , reaction analyses ,mat,mol, Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km , unity cell, charge battery condensate effect ,

5. Section magnetic

Explain describe low , charge mass magnetic field material attract repulsion , force magnetic , fm, mass charge material, distance field, fm, ma,mb, dr 10 x19,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km, react hysteresis effect alimentation, low curie, and wire effect field magnetic

Flux magnetism, b, h,mu , db,

6. Section electromagnetism, low force electromagnetism effect faraday, Lenz, , efm , f= b.i.l/,,,/b.el… variation flux variation current ,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km effect electromagnetism reactance, xl, impedance x, c, mail circuit

7 . section alternating current , dc current , low alternating ,field low sine, cosine, period phase frequency , phenome synchrony, asynchrony field space ,peak, average field directional,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field , integral max, integral min value contour integral, derivate total partial, Imax, instanouse, ,value max, value instanouse, network transmission radial antenna, dispatching in out, power

Trade fencing electrical fire effect, km

8. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km, system low effect heating system star delta field factor efficiency power line,

9. Section electro technical

9.1 principle electricity low describe explain paragraph 1- 8 , next. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km , system low effect heating system star delta field factor efficiency power line,

9.2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

9.3 electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

9.4 electrotechnic welding electric, arc machine four electrical, induction capacitance microwave,

9.5 electromenager component,

9.5 traction electrical, vehicle electric , substation number, tramway

10. Electro technology, explain, describe low, electric technology principle science engineering 2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage electrotechnic welding electric, arc machine four electrical, induction capacitance microwave ,

Electromenager component,

Logic system, binary language equation logic, eic design language

Technology electric principle, explain mater conductor field, insulator field, magnetic field, semi-conductor field.

Power foundation, maximal, minimal nominal, component engine, thermal, factor power machine maximal found refund minimal ,limited logarithm exponential factorize component technology field, code eic, cebec component trading code , measuring ,value, instaneouse, peak, rms, periodic,

- Technology commanded circuit control circuit installation breakers ,fuse component design material delay relay switch installation , max delay relay min relay , power , empower design unity , sequential schematically draw label control switch max component switch , telemechanic distance
- Technology machine circuit control circuit switch machine starting inspect ac dc machine alternating , starting ,

Technology supply component electro manager, stove, gyser control circuit

Technologie digital commande Project, caractéristique spécifique power principales circuit power, management, billant power

Technology maintenance revise component unity, repaired test condition abnormal, 2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

9.3 electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

9.4 electrotechnic welding electric, arc machine four electrical, induction capacitance microwave,

9.5 electromenager component,

2 machine electric dc machine ac machine explain low describe low machine power torket efficient low

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electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

Electrotechnic welding electric, arc machine four electrical, induction capacitance microwave,

Electromenager component,

11. machine electrical, explain describe machine electrical. Machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na,

Machine thermique power, force mortice, force electromotive,, billon machine thermique ,

Principle mechanic machine electric Machin , machine pooling, level , power torque machine , thermic efficiency machine low , compressor, electrical, electromagnetique machine power torket , unit turn field . cn nominal maximal , power in out machine.

Rotor, stator component, inductor, brushes, dc machine, ac machine, fitting, welding metal work, still, field

12 instrument measure, electrical section explain measuring analogy, digital structure comment, instrument,

Principle, measuring voltage, current, power, factor power, active passive, , select caliber measure correct error measure,

Construction instrument, Mobil, Ferro magnetic, thermodynamic , taxation power unity kWh, kvar, air time meter, component. Low. Machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na,

Scald caliber, shunt series method Weston, series parallel add resistor,

13. Construction electrical. section explain describe planning electrical design vector electrical structure component station substation electrical geometrical distance supply unity ,

Construction, matter electrical insulator conductor field magnetic field, heath thermodynamic field colding field regime stationary permanently supply conductivity supply earthling supply,

Construction point lighting branched supply connecting architecture structure designed,.

Supply station transport unity kmh distance high length unity component joint inspection generation transport unity mass transporter structure electrical support. Unity station vehicle, .section electro technical

Principle electricity low describe explain paragraph 1- 8 , next. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km , system low effect heating system star delta field factor efficiency power line,

Generation inspection compliance, machine electric dc machine ac machine explain low describe low machine power torket efficient low

Assembly machine electric function machine morphology technical found machine system machine process machine fabric machine component efficiency rendement power , power machine thermic mechaotechnology system , dv, di, dt, n, na, p

electrotechnic production distribution transport electricity air time sale , station substation unity supply km power station km/ kg line coverage

Electrotechnic welding electric, arc machine four electrical, induction capacitance microwave, electromenager component,

Geomatics, system equilibrium balancing transport vector diagram, distributor, dispatching. , vector scale value unity building power energy,

14. Electro energetic section explain describing corrective, power energy, principle

Principle electric electrotechnic application energy electric , energy application energy luminaire lighting energy, factor electromagnetic energy , efficiency ,lumen, lux, watt power bulb, efficiency , contrast brilliance factor, optometric science , physical, screen, df, di intensity lumen, flux luminaire, function corrective light point installing construction building point .

- Energetique electrical system equilibrium energetically, heater bulb , tube fluoresce , projector unity
- Energetically foundry energetically
- Energetically traction electrical kwh asking building machine energetically mortice
- Energetically renewable, solarize central station, energy power station chemicals geostation hydra electrical energy , group electro gene diesel essence petrol, chemical biomass energetically, production

Energy. Construction electrical. section explain describe planning electrical design vector electrical structure component station substation electrical geometrical distance supply unity , Construction, matter electrical insulator conductor field magnetic field, heath thermodynamic field colding field regime stationary permanently supply conductivity supply earthling supply,

Construction point lighting branches supply connecting architecture structure designed.

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Derivation integrate field,,

Robotique electro energy analyses circuit passive active radiotechnic, synthesis, recherché industrial electro energetique instrustriel component machine energetic manufacture production electro energetic field maintenance production energy supply

application transmission hydraulique electro energetique, , application information telecommunication navigation electro energetically network study analyses energetically network field consumption quantum life structure destruction heater demolition , quantum heater science engineering energetically astrology navette special,, station radio television radar antenna structure energetically, production series metric energetically.

-

15. Electrical industrial, trade electrical: explain describe industrial orientation electrical trade safety fire orientation fire, industrial organization hierarchy fire electrical component industrial production electrical supply. Basic trade industrial electricity: section electrostatic,

Industrial offer employee electrical support trade , orientation industrial id number trade , production current voltage production resistance supply unity production transformation ,organization industrial supply ,entrepreneurship supply trade manufacture organigrams supply theory practice management flow shart electrical trading marketing , cellule classification electrical supply field coding supplies sabs , eic, cebec iso, supply electrical require , administration number supply manufacture coding theory letter series , coding , data base electrical

Institution industrial technical trade unity.

Explain describe low coulomb low ,newton , force f, q charge , qa, qb, low field electrical , effect proximate wire h tbt , screen effect spot , fire escape ,

Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

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section electrodynamic ,

Explain describe low ampere current , low voltage ddp, , capacity ah current charge f, q field electrical wire angle stereo mass, acceleration speed constant , ht, bt effect, va vb, pression charge,

Function, Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

Derivation integrate field ,

Trade fencing electrical fire effect, km ,,dv, di, dt , distributor effect km, celerity transmitter wire cabling, data, km/s, time load purchasing instriel electrical air time,

Section electrocinetic

Explain describe, low ohm pouille, resistance , effect joule , r , p

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

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Explain describe low , charge mass atomic ,mass molecule , density current , reaction analyses ,mat,mol, Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

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Trade fencing electrical fire effect, km

Function variable dq, df, area , volume field , equation demonstration effect proximate distributor wire, current ,

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Trade fencing electrical fire effect, km , unity cell, charge battery condensate effect ,

Section magnetic

Explain describe low , charge mass magnetic field material attract repulsion , force magnetic , fm, mass charge material, distance field, fm, ma,mb, dr 10 x19,

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Flux magnetism, b, h,mu , db, Section electromagnetism, low force electromagnetism effect faraday, Lenz, , efm , f= b.i.l/,,,,/b.el… variation flux variation current ,

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Function variable dq, df, area, volume field, equation demonstration effect proximate distributor wire, current,

Derivation integrate field , integral max, integral min value contour integral, derivate total partial, Imax, instanouse, ,value max, value instanouse, network transmission radial antenna, dispatching in out, power

Trade fencing electrical fire effect, km

Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,

Trade fencing electrical fire effect, km, system low effect heating system star delta field factor efficiency power line,

15.1 electronic industrial: trade industrial electronic supply, explain industrial electronic supply, production orientation organization electronic component design electronic industrial,

Diode supply production industrial redress or , transistor supply production supply amplificatory ,rectification, condensate field inductor supply production filter multiplex age mixer supply , resistor supply production rheostat Kirchhoff thermistance supply industrial production orientation class trading , diac triac tyristor classes component production convertissor hacheur degrader current sine noise commanded industrial , voltage industrial high voltage motor commanded , radiofrequency field production emitter receptor postindustrial,

Vcc,icc,vco, unity icc, vce mice, th , unity function , kHz, MHz production hyperfrequence vhf, uhf ,

16. Engineering science: section explain describe science trade industrial science nature science engineering physical static vector trading , force , mass acceleration dynamic speed force time displacement , unity function variation take per unity speed velocity constant acceleration

Gradient function , graph representation, draw , power , heater thermique thermometer alcol thermometer pyrometer , q c m, function calorimeter , q= mass c t1, t2 , , expansion superficial , resistivity steel metal rod , transmission heater convection heater diffusion heater radiation heater , , section explain engineering science chemical bio chemical matter atom molecule ion electro cation charge load , reaction chemical science material ,metallurgy material design flow , section relate electrical science voltage current resistance series parallel low describe explain low newton, low joule, ohm, low, , low ampere , unity bell relay field magnetic , resistivity metal low pouille,

17. Engineering draw, section explain engineering draw trade industrial design low , drawing structure production structure design artistically , architecture , construction, Description letter tools drawing space drawing workplace drawing , drawing letter capital number , drawing representation structure , construction line representation drawing , construction projection orthographic structure line point planer , isometric construction dimension structure , drawing , top view side projection, designed search research machining tools , drawing industrial , working structure . Structure auto cade Dao programmer assistance pc structure, pro logical, archi cad , simulation , power point effect , view synoptique , corol draw, , word art structure office design letter effect recovery ,, excel basically development system , unity operator . Picture

18. mathematic : explain describe orientation algebraic number , exponential, logarithmic antilog trade industrial basically , equation graph proportional low , geometrical angle obtuse angle rith , line , equation vector equation geometrical angle, trigonometry circle equation angle, low describe, , function limited , function derive , integrally number,

Mastering development mathematic closing enclosing function function gradient, mastering number designed number interval , closing algebraic proof number fractional master , master enclosing closing tosses series sum average , statistical probability , award reward number closing counter number calculator , close graphical square triangle closing serial power logarithmic closing , development.

19.engineering electrical faculty department , trade industrial trade engineering foundation system process fabric electrical trade engineering science engineering outcome ,trade electrical outcome trade entrepreneurship engineering electrical industrial outcome mathematical planning algebraic geometries planning trading engineering , electrical trade current voltage trading council at professional. Functional basically engineering plan trading , advancing , ,filling theory electrical engineering entrepreneurship logistic operator training engineering ,license diploma , master trading engineering enclosing close circuit relate lecture learning training theory practice electrical workshop, textbook electrical engineering , workplace time table engineering classroom, policy time table advisor assessments time table moderator orientation industrial plant counselling electrical test office inspector chief electrical report counselling.

Construction, matter electrical insulator conductor field magnetic field, heath thermodynamic field colding field regime stationary permanently supply conductivity supply earthling supply,

Construction point lighting branches supply connecting architecture structure designed.

Supply station transport unity kmh distance high length unity component joint inspection generation transport unity mass transporter structure electrical support. Unity station vehicle, .section electro technical

Principle electricity low describe explain paragraph 1- 8 , next. Section balance circuit tree phase, circuit biphasic balance network, rate circuit

Trade electrical, Function variable dq, df, area, volume field, equation demonstration effect proximate courone , skin effect inductance wiring distributor wire, current,

Derivation integrate field,,

Robotique electro energy analyses circuit passive active radiotechnic, synthesis, recherché industrial electro energetique instrustriel component machine energetic manufacture production electro energetic field maintenance production energy supply

application transmission hydraulique electro energetique, , application information telecommunication navigation electro energetically network study analyses energetically network field consumption quantum life structure destruction heater demolition , quantum heater science engineering energetically astrology navette special,, station radio television radar antenna structure energetically, production series metric energetically.

**17. Topic 1.2.3. Education technical, education technology: explain describe** education technical foundation phase, system, process, and fabric

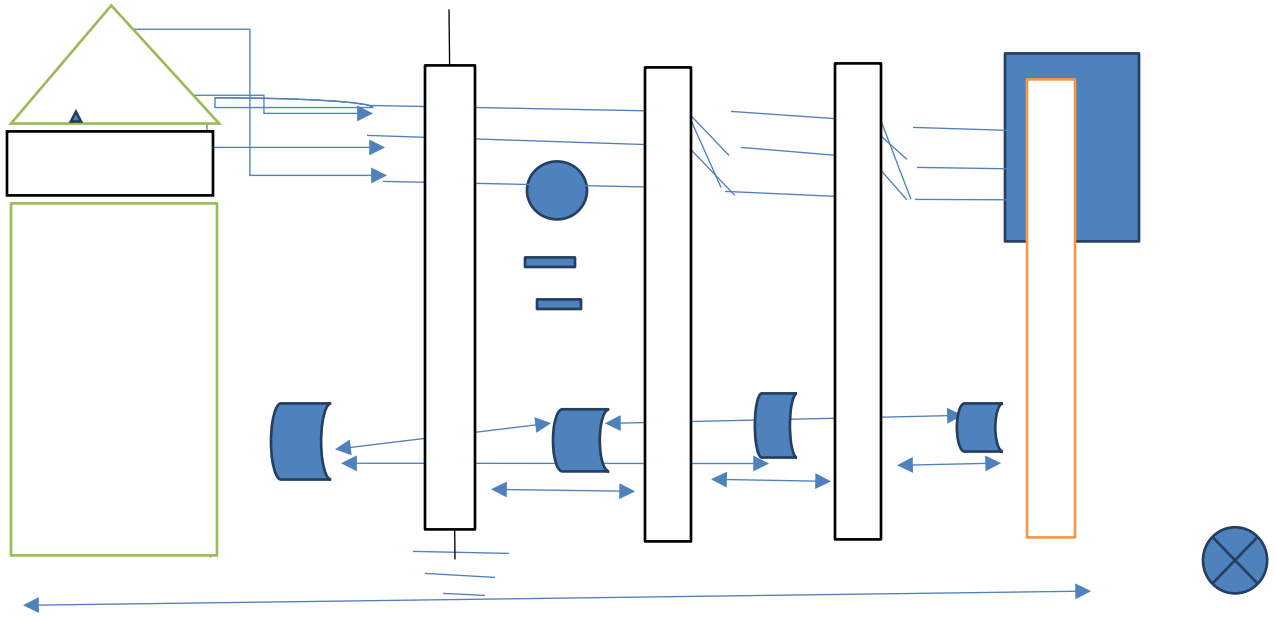
Education technology power, machine, control project. , education technical , pedagogy technical learning phemenomenologie low describe corrective low activity low topical low psychopedagogie phase low effect low , educare psychology education trade lecture learning , didactic learning learning task assignment learning objectivity learn module phenology technical low trading describe methodology,

English learning speak write communication listening auditing , policy advisor ,psychometric learning battery accumulator learning engineering chemical, x, variance learning , educated civic literacy philosophical letter expression write oral, methodology research science

Lecture, professor, task council professional teacher portfolio, learning,

Educator technology tech control measure task assessments , assignment weekend display control amount marking , check correct answering check correct tools assessments correct check unity , advise policy assessments report claim over load learning task , control project fabric, , control processor memories accumulator, trading , manufacture relating , given judgment learning process, control inspector foundation phase lecture manufacture building subject copy trade engineering, system intermediate. Pedagogy mass accumulator, method, attendance time table ,listing

Design



Km/ electrostatic , effect fire ,approximat, couron ,

Km/s celerity 3000km/h electrodynamic speed ,angle stereo,

Km/ electrocinetic r, z , pouillet,joule,

Km magnetism, electromagnetism flux area, khz, dc,

electricity

Electrical trade

Electrical construction

maintenance,
corrective fault diagnostic

**Author submission tshingombe tshitadi: student**

**Learner teacher and educatory:**

**CONIE .**

**KEKELETSO MOLOINI , DUBE, LINDIWE, SMILL, BENJAMIN ,JACKSON, UKHENDE, MALOPWE,**

**……**

SAQA , REFERENCE , AWARD DEGRE DIPLOMAT, EQUIVELENCE 45% 50 %,,,CREDIT, 1TH, 2TH,3TH,4TH, EQUIVELENCE EVIDENCE EXPLANATION 2:2,,1:2.COMPLETED SUPLEMENTAIRE RSA, 3;3 REQUIREMENT CREDIT 10.20.15/120 CERTIFICAT OUTCOM N1,N2,N3,

SUBJECT: ELECTRICAL ENGINEERING .
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MODULE DAILY LESSON PLAN / and DAILY MODULE SUBJECT PLAN

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TIME TABLE :
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TOPIC :
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LEARNING OUTCOMES / OBJECTIVES

BY .the end of the lesson , and module course subject learner should be able to

- To identifing
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- To
  explain……
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- To describe .
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-
- To demonstrate
  knowlde……
  ……
-
- To understand
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-
- To analyse
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  ……

- To investigate scenario activity
  ……
  ……

- To discovery and covery time table module completed
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  ……

Teacher and trainer instructor moderator assessor facilitator chief marker inspector : activities and assessement , assignment evaluation ,
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Lecture teacher and tutorial professor
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-Learner activity assessement police activity , discussing, defensive regulator occurrence
……
……

-Resource activity : textbook , work book, reference time table news papper documentair file,

Isbn title authore, years, revised, copyrith legacy ,

activities and assessement , assignment evaluation ,
……

-Resource used : activities and assessement , assignment evaluation ,
……

Teacher reflection / evaluation : week , days month record sheet

- Educator name and surnames:
  ……
  ……

Lecture teacher and tutorial professor MEMORENDUM MARKING COMPLETED. TASK ASSIGNMENT ASSESSEMENT
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DAILY LESSON PLAN / and DAILY MODULE SUBJECT PLAN

SUBMISSION COMPLETED SELF LEARNINF SELF ASSESSEMENT, SELF EVALUATION ORIENTATION , STUDENT AND TEACHER DEVELOPMENT SKILL AND MASTERING TRADING AND INDUSTRIEL. ENGINEERING STUDENT COUNSULTANT , STUDENT POLICING ENGINEERING INSTRUCTOR INVESTIGATE ASSESSEMENT POLING ATTANDENCE REGISTRAR , LEARNING RITEN MATRIC TABLE READING SELF WORKING TEXTBOOK LABOUR SKILL PRACTICAL: N1,N2,N3

SUBJECT: ELECTRICAL ENGINEERING . MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , ,
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MODULE: MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING

ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , HOMEWORK
C.....
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TIME TABLE : FULL TIME ; ID NUMBER : MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK
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TOPIC ::: MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , MATERIAL PHYSICAL STUDY POLICE EQUIPMENT BOMB TREATH FIRE EXTINGUISHER FIRST AID KEET GUN FIRE ARM OPERATIONEL SELF DEFENSE LEVEL
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LEARNING OUTCOMES / OBJECTIVES

BY .the end of the lesson , and module course subject learner should be able to

- To identifing : MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL ,
  .....
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- To explain.....
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- To describe .
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- To demonstrate knowlde.....
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- To understand
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- To analyse
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- To investigate scenario activity
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- To discovery and covery time table module completed
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Teacher and trainer instructor moderator assessor facilitator chief marker inspector : activities and assessement , assignment evaluation ,
.....

Lecture teacher and tutorial professor
.....

-Learner activity assessement police activity , discussing, defensive regulator occurrence : MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL ,
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-Resource activity : textbook , work book, reference time table news papper documentair file, MODULE TRADE THEORY ELECTRICAL , INDUSTRIEL ELECTRONICS N1,N2,N3 ,SCIENCE ENGINEERING , DRAWING ENGINEERING , MATHEMATIC , NON ATTANDANCE SUBJECT STUDENT L1,L2,L0 3, LEARNING ELECTROTECHNICAL ,ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , ELECTROTECHNOLOGY ENGLISH BUSINESS LITERACY MATHEMATIC LIFE SKILL PRACTICAL ELECTRICAL WIRING CONSTRUCTION ELECTRIC TASK , CARPENTERY WOOD WORK, BRICKLINE , CIVIS ENGINEERING BUILDING DRWAING BUILDING SCIENCE DEVELOPMENT SYSTEM IT PC N4, TRAFFIC POLICE POLICING PARALEGAL NURSING HEALTH PARALEGAL LOW JUSTICE ORIENTATION INDUSTRIEL ORGANISATION INDUSTRIEL , , ST PEACE COLLEGE TEXTBOOK, TOMMY FERRE N1,N2,N3 TRADE THEORY ELECTRICAL MC MILLAN TECH NGENIEURE, , STOLS INDUSTRIEL ELECTRONIC MARKATON , VAN RUSTENBURG MATHEMATIC N1,N2,N3, DRAWING ENGINEERING SCIENCE MOLMAN,, AFRICA INSTITUT POLICE TRAINING ,POLICING LEVEL, TRAFFIC , PARALEGAL ASSESSEMENT MANAGEMENT , INTELLIGENCE COMMUNICATION INVESTIGATION VEHICLE CONDUCT ,ST PEACE REPORT DAILY BRIGADE SASSETA PSIRA TEXTBOOK VERIFICATION SKILL , SAFETY SANS SABS RULES
.....
.....

Isbn title authore, years, revised, copyrith legacy ,

activities and assessement , assignment evaluation ,
.....

-Resource used : activities and assessement , assignment evaluation ,
.....

Teacher reflection / evaluation : week , days month record sheet

- Educator name and surnames: SELF EDUCATOR ORIENTATION INDUSTRIEL ORGANISSATION ENGINEERING,, POLICING INSTRUCTION ASSESSEMENT CONDUCT RULING STATIONERY TIME TABLE RWITEN COMPLETED SELF EVALUATION MARK, RE- MARKING ....HOMEWORK CLASSWORK ,EXERCISE EXEMPLE, PROJECT SELF EVALUATION AWARD MARKING, REWARD, REGISTRAR,
  .....
  .....

Lecture teacher and tutorial professor MEMORENDUM MARKING COMPLETED. TASK ASSIGNMENT ASSESSEMENT
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TUTORIAL DISTANCE HIGH SCHOOL, SCHOOL LEAVER UNIVERSITY IT DEVELOPMENT SYSTEM IT WIRING , DISTANCE UNISA ,

HIGH GRADUAT SAQA DEGREE DIPLOMA COLLEGE ,

**ST PEACE COLLEGE AND AFRICAT INSTITUT POLICE, TRAINING AFRICAT**

**1TSH SEMESTER : PRACTICAL TRAINING , 2TH SEMMESTER**

PRACTICAL TRAINING TRADE THEORY ELECTRICAL N1,N2N3 WIRING ELECTRICAL CABLE MERSETA SETA SASSETA VERIFICATION :

PRACTICAL TRAINING INDUSTRIEL ELECTRICAL N1,N2,N3 TRAINING ,WIRING ELECTRICAL , SUPLY

PRACTICAL ENGINEERING SCIENCE , ENGINEERING, DRAWING TIME TABLE DESIGN SHEET

PRACTICAL SELF PRACTICAL SKILL DEVELOPMENT COMPLETED SUBMITTED .

ASSESSEMENT POLICE : ENGINEERING MERSETA : RELATE LOW EXPLAIN : CONDUCT INVESTIGATION , MANAGEMENT ADMNISTRATION SAFETY RULES

| **DATE** | **LEARNER INDUCTION** | **ALL LEARNER TO BE PRESENT** | | **TIME TABLE ID : .....** | |
|---|---|---|---|---|---|
| **POES** | | | 1THS SEMMESTER MODULE | | |
| **APRIL** | EXAMINATIO N | | | | |
| **JULY** | | | | | |
| | | | | | |
| **OCTOBER** | | | | | |
| **NOVEMBER** | | | | | |
| **DECEMBER JUANAERY** | | | | | |

RESULT TO BE RELEASE SASSETA VERIFICATION - SAPS

VERIFICATION, SETA MERSETA, CETA ,HSETA, COUNCIL ENGINEERING

INDUSTRIEL ELECTRONIC : CCVT, WIRE TRAINING RADIO SASSETA MONITORING ALARM EXPLAIN

TRADE THEORY NCV SAFETY PROTECTION SURVEY VERIFICATION

MECHANICL

SCIENCE ENGINEERING , FIRE ARM GUN OPERATIONEL NCV POLICING ENGINEERING CLEAN MATINANCE DAILY

- CERTIFICAT HAND OVER

**SCHEDULE POLICE ENGINEERING ELECTRICAL ,MECHANICAL, CIVIS , TEACHER ENGINEERING ELECTRICAL , AFRICAT ST PEACE CHIEF MAKER,**

**SELF REPORT ENGINEERING ELECTRICAL SELF EVALUATION , ERGONOMETRIE, SKILL**


1. **Foreword**
2. **Executive Summary: foundation teacher career**
3. **Chapter 1: The School System**
4. **Chapter 2: The framework for evaluation and assessment**
5. **Chapter 3: System**


81. 17. Educational technology manufacture science , isat dissertation New technology view , review actuality, police institution assessor
82. 13.2 section introduction
83. 2. practical purpose and value of the isa to the workplace test application competency relevant
84. 2.1 scope of the isat , and policy
85. 2.1 topic 1 mark off basic engineering shapes
86. 2.2 topic 2 ,operate and monitoring drilling to produce simple
87. 2. 3 topic operate and monitoring a milling,
88. 2.4 topic 5 operate and monitoring a surface
89. 3. isat overview / correspondence time table self guidance award .

| Sub –task | Activity | Time frame time Allocation | Mark allocation | Discovery Recovery Remark allocation |
|---|---|---|---|---|
| **1** | Manufacture two: off Weigh size | 2h | 30 mark each = 60 | |
| **2** | Manufacture two found | 4h | 30mark each 60 | |
| **3** | Manufacture found | 2 | 35 | |
| | Power Phase | | 155 | |

6. **evaluation**
6. **Chapter 4: School assessment**
7. **Chapter 5: Teacher appraisal**
8. **Chapter 6: Student assessment**
9. **Overview , prospectuses assignment school**
10. **Challenge #1: Reducing costs to deliver courses**
11. **Challenge #2: Achieving engagement and success**
12. **Challenge #3: Selecting the right technology, technical support.**
13. **Technology: Open Source Teaching Platforms**
14. **Technology: Traditio**


| | | | | |
|---|---|---|---|---|
| | Total power manufacture | 10h | | |
| | System ., process, Fabric , | 2 | | |
| | Empower Refund size iso,is sabs | 2 | | |

90. 13. 3 Research requirement size number ø, l steel
Assessment: the student are allocate: phase obtain assesssement mark, final is mode task is complete, the lecture tutorial must ensure that allocate time for the sub task are strict a,
The following assessment tools, are provided for the full conduct of the assessment of the isat, institute police, credit sasseta, seta skill
91. 5.1.1 sub- task 1: checklist, policy list recovery, defensive listed,
92. 5.1.2 sub- task task 2: checklist
93. 5.13 sub-task 3 checklists:
Police affidavit investigation, health proof, compliance, correction police court process, patrol visibility, detective attend
94. 13.4 section task describing instruction section 2 instruction to lectures > Access the sequence of achievement , of activity to complete the task time access carefully ,all arrange , ordering of consumable ,prepare work on simulate ,
Section 3 assessment tools,

| **Checklist Item** | | | | | |
|---|---|---|---|---|---|
| **Activity** | Size | Mark | Mark foundation Power | Remark Covery team time, Error Estimal | Discovery team time |
| **1** | | | | | |
| **2** | | | | | |
| **3** | | | | | |
| **4** | | | | | |
| **3** | | | | | |
| **13** | Total | | | | |

95. 13.5 section record of performance integrated summative
Assessment task, found power ed tech

| **College** | | **Discovery** | |
|---|---|---|---|
| **Campus** | | | |
| **Student surname and** | | | |
| **Student id number** | | | |

**nal ,and education technology**
15. **Technology: Cloud-based ,and education technology**
16. **About , judgment review case book resultant ,attorney learner conductor ruling,**
17. **Appendix Features**
18. **Sources**
19.
20. **References**
21. **List of acronyms and glossary**
22. **Downloads**

**Reducing costs, while maintaining learning outcomes**

- **Improving outcomes, while holding costs steady**
- **Transformin**

| | | | |
|---|---|---|---|
| **Lecture surname and initial** | | | |
| **Date of conclusion of assess** | | | |
| | | | |
| | | | |

Assessment grid

| **Task** | **Mark allocation** | **Studied** | **Discovery Rearward bonus Leave Appeal remanufacture Refund time** |
|---|---|---|---|
| **Sub-task 1** | 60 | | 60+ day 7 , 14 day |
| **Manufacture found power off** | 60 | | |
| **Sub task** | 35 | | |
| **Manufacture certified** | 155 | | |
| | % | | |
| | | | |
| | | | |

96. 13.6 Competence level indicator

| **5- point achievement rating scale** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **5** | 4 | 3 | 2 | 1 | -1 | -2 | -3 |
| **(80-100%)** | (70-79% ) | 60-60% | 40-40% | 0-39% | | | |
| | | | | | | | |
| | | | | | | | |

Competence level indicator

| **Rating code** | **Rating** | **Mark%** | |
|---|---|---|---|
| **5** | Rating | 80-100% | |
| **4** | Outstanding | 70-100% | |
| **3** | Highly competent | 50-69% | |
| **2** | Competent | 40-49 | |
| **1** | Not yet competent | 0-39 | |
| | Not achieve | | |

Student competence level student signature. Lecture date
Sponsor by south 32

97. 13.7

1. Dissertation
2. 97. 12. **Technology: Open Source Teaching Platforms**

| **Subject** | **Research Purpose scope** | **Project specifically** | | |
|---|---|---|---|---|
| **Topic1** | | | | |
| **Thesis** | | | | |

**g processes to reduce costs and improve outcomes**

| | | | | |
|---|---|---|---|---|
| **Antithesis** | | | | |
| **synthesis** | | | | |
| | | | | |
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Experimental graduation degradation ,level ,line point show discovery , science time frame work scale, guidance react level ,speed 360 ,pas , state solid liquid

98. 13.8 compliance certificate ,license , award safety security , salary leave , treasure , relation carburet
Rules, identification relevant manufacture installation
Name of build science , ordinaries
-regulation ,news subject install manufacture , register , registrar science tester for phase , master install manufacture , specimen,
Master install manufacture, specimen,
Note 1, term legislation responsible manufacture
Note report cover discovery, descript
Section location installs manufacture, existing certificate nql license

| **Alteration Extension** | **New install** | **commercial** | **Covery Recovery Discovery Matter , report years** |
|---|---|---|---|
| **Estimation years of origin** | Manufacture | Temporary | |
| | | | |
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99. Science characteristic of power empower founded ,
- Prospective short phase point point control how determined calculated measure from supplier circuit earth leakage circuit bred manufacture rated ,
- Section description of manufacture cover by
- 100. 13.10 number of manufacture code installation circuit point discovery ,cover by report , schedule occurred, record,

| - **Circuit**<br>- **Phase foundation**<br>- **Power** | - **Exiting**<br>- **Installation**<br>- **Main distributing** | - **Sub**<br>- **distribution** | - **New**<br>- **Altered**<br>- **Temporary /installation** | - | - |
|---|---|---|---|---|---|
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| - **Overhead**<br>- | - | - | - | - | - |
| - **Section inspection and test new and existing installation**<br>- **Access content** | - | - | - | - | - |

| | | | | | | |
|---|---|---|---|---|---|---|
| **correct**<br>-<br>**Protective ,position**<br>-<br>**Respective ,occurred** | | | | | | |
| - **Test**<br>-<br>**Conductivity**<br>-<br>**Reactive**<br>-<br>**Continuity react**<br>-<br>**Construct rest**<br>-<br>**Insulation operator** | - Unit<br>- Intrude | - | - Reading result<br>-<br>Correct<br>- Correct | - | - |

1. **.Executive Summary: foundation teacher career**

**SCIE – BONO DISCOVERY.**

1. **INTRODUCTION : development :**
2. **1. CAREER AND PSYCHOLOGICAL SUPPORT SERVICE TERAPEUTIC. LEARN**
3. **1.1 TOPIC ACTIVITY. PSYCHO - - EDUCATION**

- 102. Development earl equipment , management recovery

5.4 New equipment , maintenance , data , inspect during operation abnormal , breakdown , revolution of maintenance up dating equipment ledge maintenance , component ,inspection , bare , breakdown counter measure , safety improvement,equipement ,light file , maintenance , inspection file , monthly inspection , result unfinished active bark down analyze of maintenance resulted and data for active , terminal monitor equipment , special ,lest maintenance ,historical, non periodic, maintenance equipment chart ,maintenance , inspection file report mid , terminal ,schedule monthly list a,b chart schedule ordering proceeding maintenance execution ,check maintenance resultant maintenance report ,

| **Factor**<br><br>**Defense**<br><br>**Offense** | **Phenomenon** | **Description** | **Basic Condition** | **Relevant Of equipment**<br><br>**Omitting**<br><br>**Assembly Contact** | **Recovery**<br><br>**Discovery Low** |
|---|---|---|---|---|---|
| **Dry**<br><br>**Battery**<br><br>**Process** | Batteries Failing On raving | Loss of balance shift of conch | 1. Condition creation<br>2. Friction<br>3. Condition<br>4. Condition<br>5. Shaking faction<br>6. Intern contact | Of equipment<br><br>Omitting<br><br>Assembly Contact | |
| | | | | | |
| | | | | | |

4. **1.2 PSYCHO TECHNICAL**
5. **1.3 PSYCHO - PEDAGOGICAL FOUNDATION**
6. **1.4 TEACHER**
7. **1.5 DIDACTIQUE EVALUATION QUALIFICATION**
8. **1.6 WRITE ORAL LINGUAGE**
9. **1.7 METHODOLOGICAL AGREEMENT.**
10. **BAGROUND TO STUDY RESEARCH AIMS :**
11. **1 CAREER RELATED SERVICE**
12. **1CAREER GUIDENCE AND COUNSELLING**
13. **3. PSYCHOMETRIC ASSESSEMENT FOR SUBJEC**

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Management industries flow chart manufacture policy adviser to read insurance policies plan issue
Institute or making sure people obey the low , in order event public ,legal complain police deep , daily client affidavit certificate copy case lost , patrol visibility correction court give evidence process machine daily patrol recovery , private policy security safety warning caution cleaning maintenance , station cover fire , fire script traffic facility mediation relation labor break education break arbitral, review court labor career development ,break police ,procedure conductor hr occur ,career,

Conduct training to improve operation and maintenance skill

| **Plan** | **Policy Meeting** | **Maintenance manager** | **Maintenance executive** | **Recovery policy** |
|---|---|---|---|---|
| **Plan, LESSON SKILL COURSE ELECTRICAL WIRING , TRADE THEORY** | Company Policy POLICE ASSEMENT MEETING | Annual goals Maintenance schedule , GOAL | Investigation Pepper TIME TABLE BREAK TRADE THEORY ELECTRICAL, INDUSTRIEL ELECTRONIC , SCIENCE ENGINEERING | Discovery Operation Records evaluation Improvement And education Manufacture |
| **Do** | | Education and assistance Period<br><br>-preventer repaired inspection patrol | Check maintained Result | |
| **Check** | | Maintenance, statistic report report evaluation | Maintenon record | |
| **action** | | Maintenance Prevention Design And data -prevent recur | | |
| | | | | |

T CHOICE STUDY AND CAREER DECISSION LEARNER AND YOUTH SUPPORT CAREER RELATED MATTER. EXPLAIN MATTER GIVED EVIDENCE

14. 3.1 FRACTION BRIEF :
15. 3.2 PSYCHOLOGICAL SUPPORT SERVICE :
16. PSYCHO-EDUCATION AND PSYCHO-EMOTIONAL ASSESSEMENT NOMINAL , PARENTAL AND TEACH SUPPORT
17. 3.2 SOUTH SCIENCE CAREER

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|---|---|---|---|---|
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| Plan | Engineering | Maintenance | Production | Maintenance |
|---|---|---|---|---|
| **Plan** | Annual equipment Inspector | | | Control flowed char advance |
| **Do** | Month 25 Weekly | Maintenance schedule | | |
| **Check** | Daily | Maintaining meeting Daily | | |
| **Take action** | Week holiday maintenance record confirmation of resultant | | | |
| | | | | |
| | | | | |
| | | | | |

Training operator advance management supervisor , basic testing experience work learning applier teaching mastering skill top – and middle worked ,learners skill , learning basic low mark ,learning basic equipment same

| Require Adie | Subject | Element |
|---|---|---|
| **3day** | | Basic |
| | | Advanced |
| | | Filling |
| | | |
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103.

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|---|---|---|---|
| | **EDUCATION INFO ADVISORY PROGRAMME OF SCIENCE WORKSHOP SPECIAL EVENT ADVISORY LEGAL.** | | |
| **18.** | **4 SCIENCE CAREER EDUCATION PRESENTATION SERIES: GRADE SPECIFIC SCIENCE CAREER EDUCATION CV ALIGGNED TOPIC FOR SUBJECT AND CAREER CHOICE FOR POST SCHOOL WORK AND STUDY APPORTUNITIE, THESE PRESENTATION COVER A RANGE OF TOPIC** | | |

| | | |
|---|---|---|
| **AND EQUAL.** | | |
| | | |
| **TEXTBOOK,** | | 104. Period year career 7 years 1 years discount week library |

| **Study Name**<br><br>**Judgement**<br><br>**Attorney**<br><br>**Library** | **Test 1** | **Test 2** | **Test 3** | **Praka** | **Prakb** | **years** | **exam** | **Exam** | **Total** | **Form**<br><br>**Performance Career** | **disco** | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Study Name**<br><br>**apprenticing** | | 100% | 100% | | | | | | | | | | |

Work book practice

| **Book** | **Code-cost** | **Work-cost** | **News pepper** | | | |
|---|---|---|---|---|---|---|
| **01-6** | | | | | | |
| **Ruling** | A<br>B<br>c | A<br>B | | | | |
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Test book , review 3 month correct paragraph file work exist, new work, benefice proces, price R7.50 R * per book increase and R8.70 on 1st April 19.99 workbook will R10.00 and test R1 per test.

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**Report attandace registrar ,**

**Time table student**

**Engineering electrical time table,**

**Lecture activity**

**Practical and theorical n1,n2,n3,**

| Name | Surname | Cell phone number | Signature | Time in and out | Occurrence time<br>Table<br>Search<br>Research book<br>Time table |
|---|---|---|---|---|---|
| **Tshingombe** | Tshitadi | 0 | n | 08 / 14h | Research time table<br>Trade theory electrical, engineering science , engineering drwawing , industriel electronic<br>Mathematics<br>Skill development engineering |
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schedule work record sheet 3 month attandence , 9 month 17 month record

Clearence student subject allocation no reportable , unopposite , not challenger, record transcript process time table, filing submission, time table , completed

**TRIMESTER ASSIGNMENT SCHEDULE FOR STUDENTSNATIONAL CERTIFICATE ENGINEERING STUDIES: INDUSTRIAL ENGINEERING, N1, 2, 3,4,5,6**

**SEMESTER MODULE, 1,2, DEGRE DIPLOMAT CONTINUING**

| SUBJECT | ASSESMENT TASK | MARK ALLOCATION | CONTENT AVERAGE | STUDENT PROGRAME | YES | NO |
|---|---|---|---|---|---|---|
| 1 Electrical Trade Theory N1 1 Electrical Trade Theory N1 | Assignment 1 Assignment 1,<br>2,<br>3 | 310<br>302<br>100 | Modules 1 to 5Safety precautions<br>Electrical circuits<br>Resistivity<br>Magnetism<br>Batteries & direct currents Modules 1 to 5Safety precautions<br>Electrical circuits<br>Resistivity<br>Magnetism<br>Batteries & direct currents<br>Modules 6 to 8Alternating currents<br>Measuring instruments<br>Conductors & insulat Modules 6 to 8Alternating currentsMeasuring instruments<br>Conductors & insulat | Week 1: Study module 1 & 2Week 2: Study module 3 Week 3: Study module 4Week 4: Study module 5Week 5: Complete & submit assignment 1 | | |
| | | | Modules 9 to 11Wiring of premisesTesting ElectronicsRevision | Week 6: Study module 6 & 7Week 7: Study module 8Week 8: Complete & submit | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | assignment<br><br>Week 9: Study module 9Week 10: Study module 9 Week 11: Study module 10 & 11Week 12: Complete & submit assignment 3* | | |
| Assessment Tool: Marking Memorandum | CRITERIO<br><br>OUTCOM<br><br>ASSESSEMNT SAQA, | | | | | |
| AWARD DEGRE DIPLOMAT CERTIFICATE<br><br>1TH,2TH,3TH,4TH. | SAQA CRITERION<br><br>OUTCOM ORIGINATOR, | | | SUBMITTED SUPLEMENTAIRE ,<br><br>CONTINUING PROFESSIONEL ,BASICAL ELECTRICAL, TRADE<br><br>ELECTROSTATIQUE<br><br>ELECTRODYNAMIQUE,ELECTROCINETIQUE ,FUNCTION ,EQUATION ELECTROMAGNETISM,<br><br>SCREEN,.<br><br>SUPLEMENTAIRE<br><br>- COURSE<br><br>SUBMISSION MARK SUPLEMENTAIRE TRANSCRIBTION ACADEMIQUE, | | |
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| **SBJECT** | ASSESMENT TASK | MARK ALLOCATION | **CONTENT COVERAGE** | **PROGRAME** | | |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| **2 Industrial ElectroniicsN 1 2 Industrial ElectroniicsN 1** | Assignment 1, 2, 3 | 310 302 100 | Modules 1 to<br><br>3IntroductionAtomic Theory Cells & battery Module 4 to Capacitance Magnetism AC current theory Inductors and transformer Multimeter semiconductor diodes Transistors Module 1to 11Revision | Week 13: Study module 1 & 2Week 14: Study module 3 Week 15: Complete & submit assignment 1*<br>Week 16: Study module 4 Week 17: Study module 5 Week 18: Study module 6 & 7Week 19: Study module 8 Week 20: Study module 9 Week 21: Study module 10 Week 22: Study module 11 Week 23: Complete & submit assignment 2* | | |
| ***Assessment Tool: Marking Memorandum** | | | | | | |
| **AWARD DEGRE DIPLOMAT CERTIFICATE 1TH,2TH,3TH,4TH.** | SAQA CRITERION OUTCOM ORIGINATOR, | | | SUBMITTED SUPLEMENTAIRE , CONTINUING PROFESSIONEL ,BASICAL ,FIRE FITHING SAFETY ELECTRONIC ,FIRE ARM ELECTRONIC DIGITAL, ELECTRICAL, TRADE<br><br>ELECTROSTATIQUE<br><br>ELECTRONIC CTV , RADIO ,ALARM RELAY SAFETY SECURITY ELECTRONIC POLICY -ELECTROLYSE CELL, | | |
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| **SUBJECT** | ASSESSMENT TASK | MARK ALLOCATION | **CONTENT COVERAGE** | **PROGRAMME** | | |
|---|---|---|---|---|---|---|
| **Engineering Science N1** | Assignment 108 118 120 | | Modules 1 to 6Dynamics Statics Energy HeaT Particle structure of matteR Electricit | Week 25: Study module 1 Week 26: Study module 2 Week 27: Study module 2 Week 28: Study module 3 Week 29: Study module 4 Week 30: Study module 4 Week 31: Study module 5 Week 32: Study module 6 Week 33: Study module 6 Week 34: Complete & submit assignment 1* Week 35: Complete & submit assignment 2* Week 36:Complete & submit assignment | | |
| **AWARD DEGRE** | SAQA CRITERION | | | SUBMITTED SUPLEMENTAIRE , CONTINUING | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **DIPLOMAT CERTIFICATE 1TH, 2TH, 3TH, 4TH.** | OUTCOM ORIGINATOR, | | | PROFESSIONEL ,BASICAL ELECTRICAL, TRADE<br><br>ELECTROSTATIQUE SUBMITTED SUPLEMENTAIRE , CONTINUING PROFESSIONEL ,BASICAL ELECTRICAL, TRADE<br><br>ELECTROSTATIQUE, CONTINUING PROFESSIONNEL , STATIC ,KINEMATIC, ,DYNAMIC,EQUATION,FUNCTION, THERMODYNAMIQUE HEATER, HYDRAULIQUE, PHYSICAL ENGINEERING, CHEMISTRY,METALLURGIE, MOTORING, | | |
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| **4 Mathematics N** | Assignment 1,<br>2,<br>3 | 115<br>115<br>125 | Modules 1 to 5 Orientation Exponents & logarithms Algebraic operations<br><br>Factorization Equations - Modules 6 to 9 Algebraic graphs Triangles Trigonometry Mensuration & percentages Modules 1 to 9Revision | Modules 1 to 9Revision | | |
| **AWARD DEGRE DIPLOMAT CERTIFICATE 1TH,2TH,3TH,** | | | | | | |

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|---|---|---|---|---|---|---|
| **4TH.** | | | | | | |
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| **SUBJECT** | ASSESSMENT TASK | MARK ALLOCATION | **CONTENT COVERAGE** | **PROGRAMME** | | |
|---|---|---|---|---|---|---|
| | | | 2 Engineering Drawings N1Assignment 1 ⎪ 100 Modules 1 to 9FundamentalsComputer aided draughting Freehand drawing Geometrical construction Reproduction drawingFirst-angle orthographic projectionAxonometrical drawing Geometrical solidsSection drawing Week | 3: Study module 1 & 2Week 14: Study module 3 Week 15: Study module 4 Week 16: Study module 5 Week 17: Study module 6 Week 18: Study module 7 Week 19: Study module 7 Week 20: Study module 8 Week 21: Study module 9 Week 22: Complete & submit assignment 1* Week 23: Complete & submit assignment 2* Week 24: Complete & submit assignment 3* Assignment 2⎪ 200 Assignment 3⎪ 200 *Assessment Tool: Marking Memorandum | | |
| **CONTINUING AWARD DEGRE DIPLOMAT ,** | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **EXPLANATORY**<br><br>**TRANSCRIPTIO N** | | | | | | |
| **ELECTROTECH NICAL** | | | | | | |
| **ELECTRO TECHNOLOGY** | | | | | | |
| **LOGIC SYSTEM** | | | | | | |
| **INDUSTRIEL ORIENTATION ORGANISATION INDUSTRIEL** | | | | | | |
| **EDUCATION TECHNOLOGY RELATE**<br><br>**ENGINEERING FOUNDATION ENGINEERING CONSTRUCTION LEVEL** | | | | PHASE FOUNDATIO N ENGINEERIN G ELECTRICAL, INTERMEDIA RE, SYSTEM, PROCESS, FABRIC MANUFACTU RE ,MAINTE NANCE, | | |

CHECKING SUBMISSION ALLOCATION TASK ,YES OR NO, FRAMEWORK,POLICY ASSESSEMENT REPORT DAILY OK, NO , SUPPLY AWARARD MARK, PERCENTAGE DEGREE DIPLOMAT , FRAME PRACTICE ALLOCATION EXISTING COMPLIANCE OR NOT, TEXTBOOK EXISTING OR NOT , CLOSE AWARD TENDERED ,BID CERTIFICATE CLOSE TIME TABLE,

WEEK SUBMISSION OR NOT, POSTPONENT. CONDUCT STUDENT 1TH, 2TH, 3TH, 4TH AAWARD DEGRE DIPLOMAT,

TEXTBOOK AWARD RECORD TRANSCRIPTION COST MARK BOOK LOAD PURCHASING EARNING, DISCOUNT OR NOT CHECK,

**5. Topic assessment report daily**

**, log activity**

**Report schedule week,**

**Instruction book,**

**Booked, learner lecture, policy**

**Coaching team meeting event feedback, skill development**

**Training moderation, assessment tools,**

| Date time | Time departure. | Instruction , Investigate | Action take , Learner | Nature occurred | Corrective Action |
|---|---|---|---|---|---|

| | | | And assessment | | descript |
|---|---|---|---|---|---|
| | | | | | |
| | | Post quiz Self-assessment Assignment | Defense factor, | Compliance Condition | Offense penalty Reward award mark |
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| Time in Series booked Number | Time out Criterion | Instruction booked Remark Search | Action take Research tools | Checking tools , booking Action take | Nature occurred book checker review time line | Corrective Inspection booked , |
|---|---|---|---|---|---|---|
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**PRACTICAL –ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING ----------POLICE ENGINEERING , ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING INVESTIGATE CONDUCT, DETECTION TRAFFIC VEHICLE PATROL --------ASSESSMENT STATIONNAIRY WIRING TABLE DISCOVERY FAULT FIND PROTECTION DEVICE INSTALL RULES SAFETY ---------- ELECTRICAL WIRE ,logic system, control system,,,,electrotechnologie, mechatronics, n1,n2,n3 ,n4,n5,n6**

**RESEARCH DRAWING WIRE ELECTRICAL CIRCUIT CONNECTION TEST .**

**COLLEGE TRADING PRACTICAL MAKING THINGS.**

**COLLEGE INDUSTRIEL PRACTICAL ENGINERING ,,TEST**

**EXAMINATION EVALUATION LIBRARY . DISCOVERY**

**Author submission tshingombe tshitadi: student**

**Learner teacher and educatory: Connie**

**Policy assessment peace college and africat institute police : Mr Jackson**

**Security and safety st peace college Mr. Jackson**

**File : assessment : st peace :>p**

**FILE : ASSESSEMENT ST PEACE A.I.P**

**STUDENT : TSHGINGOMBE – TSHITADI**

**FACULTY : ENGINEERING – ELECTRICAL**

**ID:2004007064381 .N1 –N6 EXAM TIME TABLE JULY MARCH : AWARD CERTIFICATE EXAM RE- MARK**

**ID: 201100744332 N1, N2-N6 EXAM TIME TABLE NOVEMBER :SOLDERING , AWARD CERTIFICATE EXAM RE- MARK**

**ID :20191113002 EXAM EVALUATION SAQA RECORD AWARD DEGREE DIPLOMAT**

—

**CLOSE SUBMISSION BID**

**AWARD BIDEN**

**CERTIFICAT BIDEN SUBMISSION VALUE TENDERED**

**TIME TABLE,** -March July learner : 2020 / 2019 attendance learner n1 n6 exam pepper re written

-November December January 2020/2021

VACACY STUDY OPPORTUNITY LEARNER

TEACHER HOLYDAY, LEAVERS SCHOOL CLASS SUBMISSION VALUABLE

NO MARKING CLOSE SUBMISSION 100%

WEEK DAILY MODULE NON COMPLETED

**Subject :engineering electrical presentation**

Textbook : revision moolman

**Aim for engineering science**

**Id number :**
**.....**
**.....**

**Saqa id number :... ID :20191113002**
**.....**

**Sasseta acreditation :**
**.....**

**-learner outcom: engineering electrical :**
**.....**

**Use**

**Duration presentation**

- **Trimester full time week 75hour test**
- **evaluation**
- **class test completin module**

- 
- **Examination aspect degre difficulty ,**
- **reward ammandement policy low sabs ,sans is ,act resolution**

| **Reproduction** | **Application** | **Analyse** | **Evaluation** | **Compare Total** |
|---|---|---|---|---|
| **Engineering Science**<br>**-trade thery electrical**<br>**-mathematic**<br>**-Industriel electronic**<br>**-Engineering drawing**<br><br>**-** | | | | Total mark 100/ |
| **Total Mark 100%** | | | | |
| | | | | |
| **Assessment Engineering**<br>**-assessment police engineering**<br>**Module** | | | | |

| | | | | |
|---|---|---|---|---|
| **Module**<br><br>**-1 dynamic**<br>**-2 static**<br>**-3 energy anad power**<br>**-4 heat**<br>**-particle structure**<br>**-electricity** | Value<br>Weigh value<br>External<br>Internal class work<br>homework test<br>exam<br><br>14/....<br>18/....<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award final<br>3mont h<br>Week<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Certificate<br>award<br>3month<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award<br>Certificat<br>Diplomat<br>councilat<br>Close table<br>18 month<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ |
| **Module**<br>**-1 dynamic**<br>**-2 static**<br>**-3 energy anad power**<br>**Friction**<br>**Kinematic**<br>**-4 heat**<br>**-particle structure**<br>**-electricity**<br>**Chemistry**<br>**Heater hydraulic** | Value<br>Weigh value<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award final<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Certificate<br>award<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award<br>Certificat<br>Diplomat<br>councilat<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ |
| **Module**<br>**-1 dynamic**<br>**-2 static**<br>**-3 energy anad power**<br>**-4 heat**<br>**-particle structure**<br>**-electricity**<br>**Kinematic**<br>**Chemistry**<br>**Heater hydraulic** | Value<br>Weigh value<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award final<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Certificate<br>award<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award<br>Certificat<br>Diplomat<br>councilat<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ |
| **Module /n4/5/6**<br><br>**-1 dynamic**<br>**-2 static**<br>**-3 energy anad power**<br>**-4 heat**<br>**-particle structure**<br>**-electricity**<br>**Kinematic** | | Discount<br>Replace<br>subject /n1<br>Engineering<br>drawing 4<br>subject<br>5 subject<br>study ,<br>One learner<br>outcom | | |

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|---|---|---|---|---|
| **Chemistry**<br>**Heater hydraulic**<br>**Module**<br>**-1 dynamic**<br>**-2 static**<br>**-3 energy anad power**<br>**-4 heat**<br>**-particle structure**<br>**-electricity**<br>**Kinematic**<br>**Chemistry**<br>**Heater hydraulic**<br><br>**Engineering**<br>**Science**<br>**-<u>trade thery electrical</u>**<br><br>**Modules 1 to 5Safety precautions**<br>**Electrical circuits**<br>**Resistivity**<br>**Magnetism**<br>**Batteries & direct currents**<br>**Modules 1 to 5Safety precautions**<br>**Electrical circuits**<br>**Resistivity**<br>**Magnetism**<br>**Batteries & direct currents**<br><br>**Modules 6 to 8Alternating currents**<br>**Measuring instruments**<br>**Conductors & insulat Modules 6 to 8Alternating currentsMeasuring instruments**<br>**Conductors & insulat**<br><br>**<u>-mathematic</u>**<br><br>**Modules 1 to 5**<br>**Orientation**<br>**Exponents & logarithms**<br>**Algebraic operations**<br><br>**Factorization Equations**<br>**- Modules 6 to 9**<br>**Algebraic graphs Triangles**<br>**Trigonometry**<br>**Mensuration & percentages**<br>**Modules 1 to 9RevisionModules 1 to 5**<br>**Orientation**<br>**Exponents & logarithms**<br>**Algebraic operations**<br><br>**Factorization Equations** | 14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/<br><br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/<br><br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | | | |

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|---|---|---|---|---|
| **- Modules 6 to 9**<br>**Algebraic graphs Triangles**<br>**Trigonometry**<br>**Mensuration & percentages**<br>**Modules 1 to 9Revision**<br><br>**-Industriel electronic**<br><br>**Modules 1 to 3IntroductionAtomic Theory Cells & battery**<br>**Module 4 to Capacitance Magnetism**<br>**AC current theory**<br>**Inductors and transformer**<br>**Multimeter**<br>**semiconductor diodes**<br>**Transistors**<br>**Module 1to 11Revision**<br><br>**Engineering drawing**<br>**N1Assignment 1 ⌉ 100**<br>**Modules 1 to 9FundamentalsComputer aided draughting Freehand drawing Geometrical construction Reproduction drawingFirst-angle orthographic projectionAxonometrical drawing Geometrical** | 14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | | | |
| Learning outcom<br><br>**-Electrotechnology**<br><br>**-**<br><br>**Electrotechnic** | Value<br>Weigh value<br>External<br>Internal class work<br>homework test<br>exam<br><br>14/….<br>18/….<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award final<br>3mont h<br>Week<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Certificate award<br>3month<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award<br>Certificat<br>Diplomat<br>councilat<br>Close table<br>18 month<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ |

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|---|---|---|---|---|
| **Logic systm**<br><br>**-Device protection**<br><br>**-Install electrical rules**<br>**Instrument**<br><br>**-Control systm**<br>**-Oraginisation**<br>**-Orientation industriel**<br>**Strenght material**<br>**Survey civs engineering**<br><br>**Electromechanic**<br>**Didactic**<br>**Educare ergonometrie**<br>**Engineering**<br>**Education technology**<br>**Caps . isat**<br>**Engineering electrical:outcom exam Fundamental,system ,control learner**<br>**Science engineering ,enginering**<br><br>**Modules 1 to 5Safety precautions**<br>**Electrical circuits**<br>**Resistivity**<br>**Magnetism**<br>**Batteries & direct currents**<br>**Modules 1 to 5Safety precautions**<br>**Electrical circuits**<br>**Resistivity**<br>**Magnetism**<br>**Batteries & direct currents**<br><br>**Modules 6 to 8Alternating currents**<br>**Measuring instruments**<br>**Conductors & insulat Modules 6 to 8Alternating currentsMeasuring instruments**<br>**Conductors & insulat** | | | | |

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|---|---|---|---|---|
| **Learning job**<br>**Career outcom /**<br>**Question papper**<br>**Exam statement**<br>**True**<br>**Or false**<br>**Police ruling**<br>**Award**<br>- **Secure ruling**<br>- **Saafety ruling**<br><br>**Enginering police/**<br>**Science police**<br>**Forensic health safety**<br><br>**Engineering**<br>**Militairy learning outcom asssessment**<br>**Skill**<br>**Development**<br>**Electrical wiring**<br>**Construction electrical**<br>**Inspection fault**<br><br>Sasseta learning verification<br>Merseta<br>Trade theory electrical<br>Practical workshop lab<br>Cabling<br>**General security special**<br>**-electrical engineering**<br>**-Electronic management**<br>**-Electrical fence**<br>**Cctv alarm**<br>**-Explain electronic**<br>**-Bomb treat**<br>**- X ray**<br>**-Smith key**<br>**Police: saps ncv**<br>**-Study material**<br>**-Fire arm**<br>**-Gun operation management system information**<br><br>**-communication skill**<br>**-Conduct investigate**<br>**Technic patrol**<br><br>**Traffic low**<br>**-Paralegal**<br>**Barganing engineering**<br>**Low ccma labour relation** | Value<br>Weigh value<br>External<br>Internal class work<br>homework test<br>exam<br><br>14/....<br>18/....<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award final<br>3mont h<br>Week<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Certificate<br>award<br>3month<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ | Reward<br>Award<br>Certificat<br>Diplomat<br>councilat<br>Close table<br>18 month<br>14/<br>18/<br>12/<br>18/<br>12/<br>26/<br>Total mark<br>100/ |

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**Class test home work**

**Text book : revision**

**The basic structure of the module in sylabus**

| Module | time allocation | Allocation | Compare External Internal |
|---|---|---|---|
| **1.Fundamental of engineering drawing** | 3hour / 45 minute | 5% | |
| **2. computer aided draugh** | 3hour 45 minute | 5% | |
| **Drawing terminologie** | 7h / 30 minute | 10% | |
| **Freehand drawing** | 7h / 30 minute | 10% | |
| **Geometrical construction** | 7h / 30 minute | 10% | |
| **First angle orthographic** | 11h | 10% | |
| **Axometrical drawing** | 15h | 15% | |
| **Geometrical solid projection of projection of prism and** | 7h / 30 minute | 20% | |
| **Sectional drawing review** | 11hour /15 minute | 15% | |
| **Total Mark** | | | |
| | | | |
| **Engineering Science**<br><br>**-trade thery electrical**<br>**-mathematic**<br>**-Industriel electronic**<br>**-Engineering drawing** | 3hour / 45 minute | | |

| | | | |
|---|---|---|---|
| **Learning**<br><br>**Electrotechnology**<br>**Electrotechnic**<br>**Logic systm**<br>**Device protection**<br>**Install electrical rules**<br>**Instrument**<br>**Control systm** | | | |
| | 3hour 45 minute | | |
| | 7h / 30 minute | | |
| | 7h / 30 minute | | |

**Research document file submission, registrar**

**emalusie 45% n1,n2,n3 grade 12 metric 45% pass, no qualify ,, saqa award credit 20to 90** .

**national diplomat: st peace college** semester

| Department high education: | Saqa qualification, award degree diplomat |
|---|---|
| National certificate n1, n2, n3, n4, n5, n6 | Certificate, 50%, pass qualify .1th, 2th, 3th, 4th |
| Engineering study | Engineering electrical study qualification |
| Award to: tshingombe tshitadi. | Award degree qualify, tshingombe tshitadi |
| Identity number ..... | Identity number ..... |
| With effect from 2019-11-01 | With effect from 2019-11-01 |
| Instructional offering passed | Instructional offering passed |
| -engineering sciences | -engineering science. |
| -Trade theory electrical, | -Trade theory electrical, |
| -Industrial electronic. | -Industrial electronic. |
| -Mathematic | -Mathematic ..... examination, officer. |
| Examination | |
| Officer | |

**St peace college academie police and africat institu police assessement police , posted**

**completed rating allacation module week rating**

**score, compare exam rating score internal external submission**

Diplomat engineering electrical award , councilat

-T1,t2,t3,t4 diplomat , n1,n2,n3,n4,n5,n6 engineering electric, statement submission

Diplomat n1, n2, n3, n4, n5, n6

Engineering study

Award to: tshingombe tshitadiIdentity number ..... With effect from 2019-11-01Instructional offering

certificate n1, n2, n3, n4, n5, n6

Engineering study Award to: tshingombe tshitadi.Identity number .....With effect from 2019-11-01Instructional offering passed

-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination

Certificate, level , 1,2,43,

skill development , study

Award to: tshingombe tshitadi.Identity number .....With effect from 2019-11-01Instructional offering passed-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination Officer

Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

Award degree qualify, tshingombe tshitadi

**completed rating allacation module week rating**

**score, compare exam rating score internal external submission**

Diplomat engineering electrical award , councilat

-T1,t2,t3,t4 diplomat , n1,n2,n3,n4,n5,n6 engineering electric, statement submission

Diplomat n1, n2, n3, n4, n5, n6

Engineering study

Award to: tshingombe tshitadiIdentity number .....With effect from 2019-11-01Instructional offering passed

-engineering sciences Trade theory electrical,-Industrial electronic.-Mathematic

Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

-certificate engineering electrical , national n1,n2,n3,n4,n6, trade electrical ,industriel electronic , electrotechnic,logic syst electrotecghnoilogie , install rules electrical

certificate n1, n2, n3, n4, n5, n6

Engineering study Award to: tshingombe tshitadi.Identity number .....With effect from 2019-11-01Instructional offering passed

-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

-

skill engineering electrical level 1,2,3,4 , n1,n2,n3,n4,n5,n6 electrical wiring , trade, construction electrical practical

Certificate, level , 1,2,43,

skill development , study

Award to: tshingombe tshitadi.Identity number .....With effect from 2019-11-01Instructional offering passed-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic Examination Officer

Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification

Award degree qualify, tshingombe tshitadi

certificate award , learning assessessor police assignment completed engineering , level 1th, 2th,3,th,4th

Rank officer sasseta, seta merseta accreditation , officer seignior cadet minim .

module semester academic years 1,2,3,4

| |
|---|
| T1,t2,t3,t4 diplomat , n1,n2,n3,n4,n5,n6 engineering electric, statement submission |

Diplomat n1, n2, n3, n4, n5, n6/ level 1,2,3,4,5,6 7,8,9

Engineering electric and police assessment rank study

Award to: tshingombe tshitadiIdentity number .....With effect from 2019-11-01Instructional offering passed

-engineering sciences Trade theory electrical,-Industrial electronic.-Mathematic

Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Certificate n1, n2, n3, n4, n5, n6

Engineering study Award to: tshingombe tshitadi.Identity number .....With effect from 2019-11-01Instructional offering passed

-engineering sciences -Trade theory electrical,-Industrial electronic.-Mathematic, survey , protection find fault electric, strength material, control system, protection device electrical Examination

Officer, Certificate, 50%, pass qualify .1th, 2th, 3th, 4th

Engineering electrical study qualification module completed work class assignment and assessment moderate ,

Cctv electronic alarm system , physical, study material police diplomat ,fire arm police , study materiel traffic study material fire arm traffic , fire arm paralegal financial , patrol vehicular, conduct investigation , technical patrol vehicle management , communication intelligence system, assessment training academic police, skill , competence fire arm self defense ,

Saps academic, trt development skill rank warrant constable ,officer primary high school class practical, class high grade graduate school officer detective patrolling , sergeant ,lieutenant captain colonel learning lecture educator portfolio , management class work assessment ,metro police , traffic police engineering , metric n3, material n4 ,n5 material study completed in tank

**MEETING REQUIREMENT, EXPLANATORY TSHINGOMBE TSHITADI FISTON**

**QUESTION PAPPER ST PEACE COLLEGE, REPORT SUBJECT TIME TABLE COMPLEMENTAIRY SUPLEMENTAIRY**

**LEARNING: BUSINESS ENGLISH N3 MATRIC : BY LEARNER KEKE SUBMISSION MARK MEMO**

**: BASIC ENGLISH LEARNER GRADE 12 AND HIGH LEVEL**

**HIGH GRADUAT BASIC LANGUAGE TRANSLATE AFRICANSE , EDUCATIONEL WRITE STATEMENT COMMUNICATION; BY SMILL QUOTAION ORAL PRESENTATION**

**DISTANCE UNIVERSITY : LEARNING TUTORIAL UNISA CAPS PLATINUM: by CONIE MANAGEMENT EDUCATOR**

**ASSESSEMENT AFRICA INSTITUT POLICE POES, PRESENTATION ORAL TEXTBOOK N1, N2, N3**

**QUESTION: FIND INVESTIGATION ANALYSE**

1. EXAMINATORY QUESTION PAPPER TOPIC?
2. COVER LETTER CV, QUESTION PAPPERS SELF BUSINESS
3. REQUEST LETTER, TOPIC ?
4. COMPAGNY SUPPLY LEARNING?
5. RWONG MODEL?
6. NOTICE?
7. FILING SUBMISSION ?
8. BASIC ENGLISH AND BASIC ENGLISH COMMMAND EXCLAMATORY
9. CORRECTIONAL PAPPER SCHEDUL ERROR , Point FULL STOP, EXPRESSION LOGIC LNGUAGE RWITEN

**ANSWERING COMPLETED TEXTBOOK, criterion test module completed? 10 mark**

Products covered by G Suite Service Level Agreement and Technical Support Service Guidelines:

| | Current status | 6/7/20 | 6/8/20 | 6/9/20 | 6/10/20 | 6/11/20 | 6/12/20 |
|---|---|---|---|---|---|---|---|
| | Gmail | | | | | | |
| | Google Calendar | | | | | | |
| | Google | | | | | | |

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|---|---|---|
| | Drive | |
| | Google Docs | |
| | Google Sheets | |
| | Google Slides | |
| | Google Sites | |
| | Google Groups | |
| | Classic Hangouts | |
| | Google Chat | |
| | Google Meet | |
| | Google Vault | |
| | Google+ | |
| | Google Forms | |
| | Google Cloud Search | |
| | Google Keep | |
| | Google Tasks | |
| | Google Voice | |
| | | « Older Newer » |

Products covered by G Suite Service Level Agreement, Cloud Identity Service Level Agreement and Technical Support Service Guidelines:

| | Current status | 6/7/20 | 6/8/20 | 6/9/20 | 6/10/20 | 6/11/20 | 6/12/20 |
|---|---|---|---|---|---|---|---|
| | Admin console | | | | | | |
| | | « Older | Newer » | | | | |

Products not covered by G Suite Service Level Agreement:

| | Current status | 6/7/20 | 6/8/20 | 6/9/20 | 6/10/20 | 6/11/20 | 6/12/20 |
|---|---|---|---|---|---|---|---|
| | Google Analytics | | | | | | |

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|---|---|---|
| | App Maker | |
| | Google Maps | |
| | Blogger | |
| | Google Sync for Mobile | |
| | Classroom | |
| | | « Older Newer » |

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COMPLETED ENGINEERING , EXPLANATORY , REQUIREMENT WIRE ,

**CARACTERISTIC . SPECIFICATION**

- POWER MAXIMUM ALLOWED .....

- POWER APPARENT, TRUE POWER FACTOR, .....

- ENERGY DEMAND MANAGEMENT LOAD, OVERHED MAIN CIRCUIT BREAKER,

CONSTRUCTION ,....

OPERATIONEL CIRCUIT ,

NUMBER PYLONE , , HEIGTH PYLONE , VALUE NUMBER VOLTAGE LINE MASTERING :

DESCRIBE COMPONENT, DEMONSTRAION REQUIREMENT ,

VALUE AVERAGE , RMS, INSTATANOUESE, CIRCUIT,

-COMPLETE DESIGN STRUCTURE..

**Facilitator critical disciplinary**

**Labor applicant compliance circuit, respondent circuit health**

Applicant wire, explain

V

V2

V3

V4

vt

Responder wire , explain

Lecture assignment

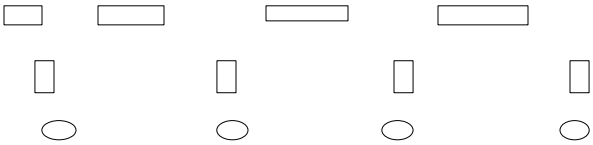
Describe overload ,interconnection switch , v1=220V ,i=25A,, vt +220

$$\rho = l.s$$

$$r$$

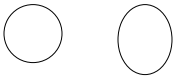
Learning engineering outcome , assignment , policy sabs judgement ouutcom safety sign , red with green , meter switch judgement in case 250v, compliance 50A explaine kwh = responsder applicant 250/ 380 argument respondent policy sabs , assessment interlock overload 30v , penalty 25, applicantion dismissed ,policy amendement compulsory found factory,

Applicant , safety , preventive ,



Policy patrol coverage ncv level, inexistence ,

Br ea



Responder safety prevent

Applicant preventive safety

What appen va, vb, qa,qa, chege discharge

Coverage enclose policy safety portofolio log inspection equipment earth , device , tested regularly , log book missing covers, base connection ,over load , short circuit protection device, founding earth leave judgement , conductor high power reason over power submission,

**Completed explanatory outcom designing .**

THE COIL OF RELAY IS WOUND WITH COPPER WIRE WHICH HAS RESISTANCE OF 65 OHM AT 0 DEGRE AFTER BEING has resistance of 65 ohm at 0 decree after being energized for severed hour it reached a temperature of 70 degree calculate the resistance of the coil at 70 degree if the temperature coefficient of resistance of copper wire used is 0,00428 degree Celsius of the copper wire used , 0c at 0 degree the copper ,

Solution r0 = 65 ohms, t 70 degree, rt =? $\alpha a$=0,0042 , degree, RT= R0 (1+αat), = 65 (1+0,00428x70) =84

, 47 ohms.

- The field coil of motor has resistance of 20 ohms at 0 degree calculate the resistance of the coil at 36 degrees if the temperature coefficient resistance of copper is is 0,00426 degree at 0 degrees, at, R0=20 HOHM , T0=0 DEGREE T1= 36 DEGREE , rt= 20(1+0,15336), = 20x1,15336 =23,07 ohm ,
- A field? coil , made of copper wire , for a dc motor has a resistance 50 ohm at 0 degree Celsius , calculate the resistance at 60 degree celcuic if the temperature coefficient of resistance of copper is 0,00426 /degree
- At 0 degree , Ro = 50 ohm , t0 =0 Celsius ,t1 = 60 copper = 0,000426 , rt=50(1+0,00042,6 x50 )
- =50(1+0,02556), = 50x1,2213= 50x1,02556 , rt = 50+50 .0= 62,78
- Coil of wire has a resistance of 120 ohms at 0 degree calculate the resistance of 0,00061 at 0 degree
  A 220 VOLT ELECTRIC HEATER RATED. at 1,6 kw determine ,
- The the current that it would draw from the supply and 7,27 a ,
- The resistance of the heating element
- I= , p=i.v , i=1,6/220 + 16000/220=7,27 , r=v/I = 220/7,27 = 30,26
- When a 12 volt lamp is connected a cross the correct supply voltage its power consumption is 60 watts determine the rated
- The rated current and , =60/12=5A ,
- The resistance of the filament R=12/5=2,4

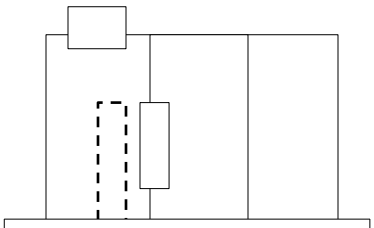
A lamp filament has resistance of 121 ohms and draws a current of 0, 91 ampere when connected across a certain supply determine,

The power consumed by the lamp and 100,2w

The supply voltage, v=rxi (121x0, 91) =110, 11

P=110x0, 91=100, 2

-the open circuit e.m.f circuit, emf of certain cell was measured and fond to be 1,48 volts when a 2 ohm resistance was connected across the terminals a current flow of , 0,6 amperes was measured determine , the internal resitance of cell- ,the terminal ,voltage with ,the 2 ohm resistor connected



V1=E1-I1r1 ,1

V2=E2-i2r2 ,2

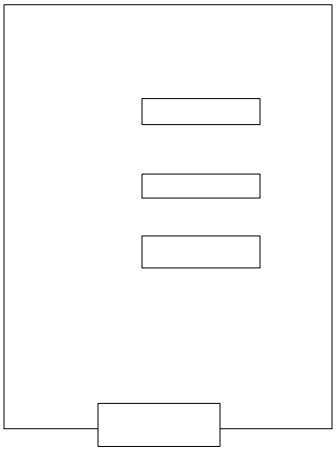
V3=E3-i3r3

V1=E1-i1r1 ,1

V2=E2-i2r2 ,2

.....

2v=2E-2ir =3



1/r=1/r1+1/r2=

ET=nxe1

Rt=nxr1

I=E/R+r =

=6/3,42+1,6 =1,193 A,

-v= E-ri = 6-1,193x6= 4,09

Log

E=v+ir

12v

12v

I1

I2

I3

Proof, v=e-ir

2v=4v-i2 ohm

2v/4v=4v-i2/4v

1/2v=-i2/2 ohm

1=1

2v=4v-1a, 2ohm

2v=4-2 ohm

2v=2v

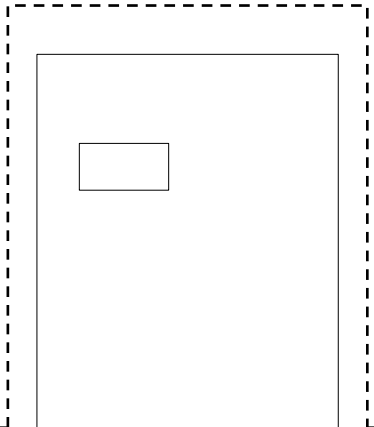
Research current , passed circuit resistor , r1,r2, circuit total circuit , 3month kwh meter certify consumer power , efficient work done , 3month 6 years , guarantee

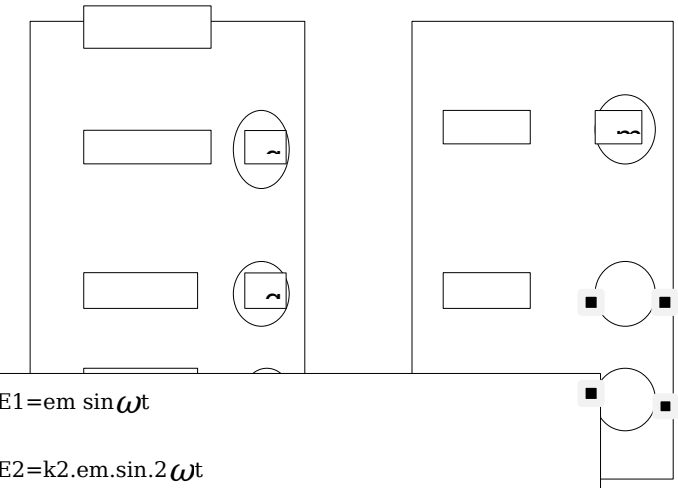
Relative advantage and disadvantage, manufacture

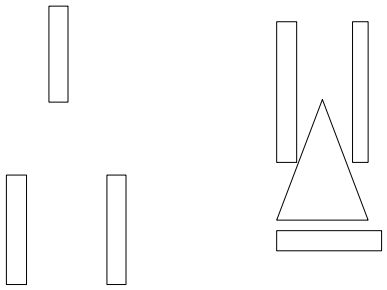
| Compare e.m.f | 1,5 | 1,8 | 2,1v | | | |
|---|---|---|---|---|---|---|
| Current Capacity | | | | | | |
| Recharge | | | | | | |
| Self life | 6month | | Long provide | | | |
| Physical size | | | | | | |
| Mass Cost | | | | | | |
| | | | | | | |
| | | | | | | |

English directive, sens

Give two equation which can be use to determine the internal, research current circuit, r1, r2, connected paralle, passed, if i2=2a, i3=3a, i4=6a, it periode, 3month power,







E1=em sin$\omega$t

E2=k2.em.sin.2$\omega$t

E3=k3.em.sin.3$\omega$t

En=kn.em.sin.n.$\omega$t,

E=e1+e2+e3+...en

I1=45x$10^{-3}$sin127t

I2=22,5x$10^{-3}$sin3770t

I3=15x$10^{-3}$sin7540t,

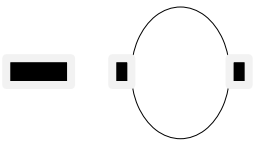
I1=45x$10^{-3}$sin120t

I=45x$10^{-3}$¿sin127t+0, 5sin3770t+0,33

i1, in+i1+i2+i3=0

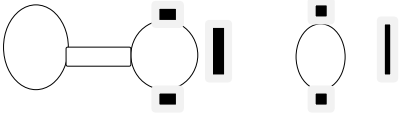
VL=$\sqrt{3}$VF, VL=VF

If=If IL=$\sqrt{3}.if$



E=v-ia.ra

N=v-ia.ra/k$\varnothing$

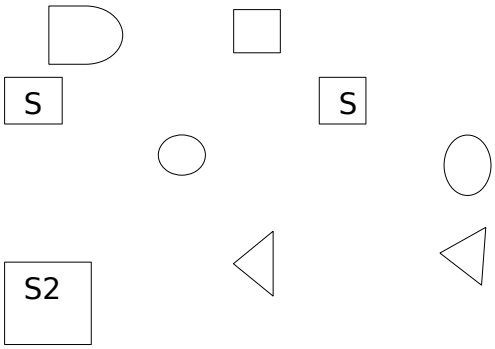


1

Tutorial: lecture ,basic subject posted , tutee guarding explainer , teacher ,institutor , instructor memorandum , exam, charted , explain , educator tech , technologies , tutorial register ,

Proof, post grade tutor learning engineering,

-consultant , doctoral analyze operator , activity module, symptom, learn assess , assign did act activity diagnostic symptom ,learning assess didactic discipline educe tech no logic task ,permit license authorization building educator technology allocation control,




| x | y | | | | | |
|---|---|---|---|---|---|---|
| S1 | S2 | S1 | S2 | S1.s2 | S1.s2 | I |
| 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 0 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 0 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 0 | 0 | 0 | |
| 1 | 1 | 1 | 1 | 1 | 1 | |
| | | | | | | |

Logic system,calcul numeric, ,psychotic proof, simplify fraction ,switch contact, algebraic ,,x proposition power n variable x, n proposition , conversion binary, base binary decimal hexadecimal, ,logarithm diagram sequential, , s1. S2, switch , rectifie, amplificatory, outcome modules, equation switch ,simplify binary switch 0.1.state

Translate French English level , math teacher , educator technology , educator technique , psychotic calculus mental measure drawing , master skill proof , explain low give evidence low quotation low, dividend low, correct low ,

Motion note teacher grade 12,n3 metric 1, month , 3month 60 day kmh 3month , caps curriculum policy assessment, , exchange certificate policy . Proof enclose, coverage graphic

Equation

X+4=12

x+4-4=12-4

x+0=8

=8 ,

Proof equation mental reasoning

Recalculate error, systematic, methodic, means

8+4=12

12=12, proof number mastering counting equation

(a+b)=$a^2$+2b+$b^2$,

Close, enclose proof,

a=x-4=12

b=x-6=6

Simplify. Proof

3x. y.2

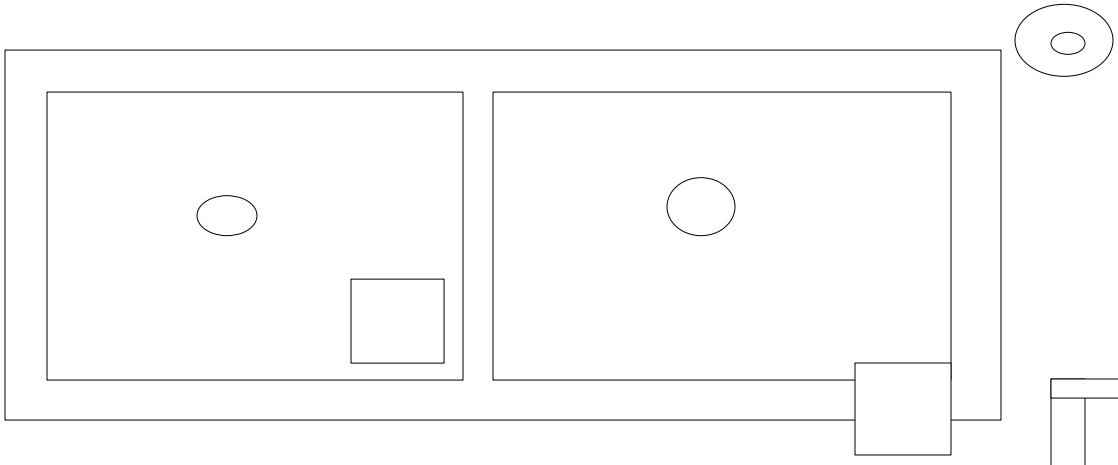
X=1

Y=1

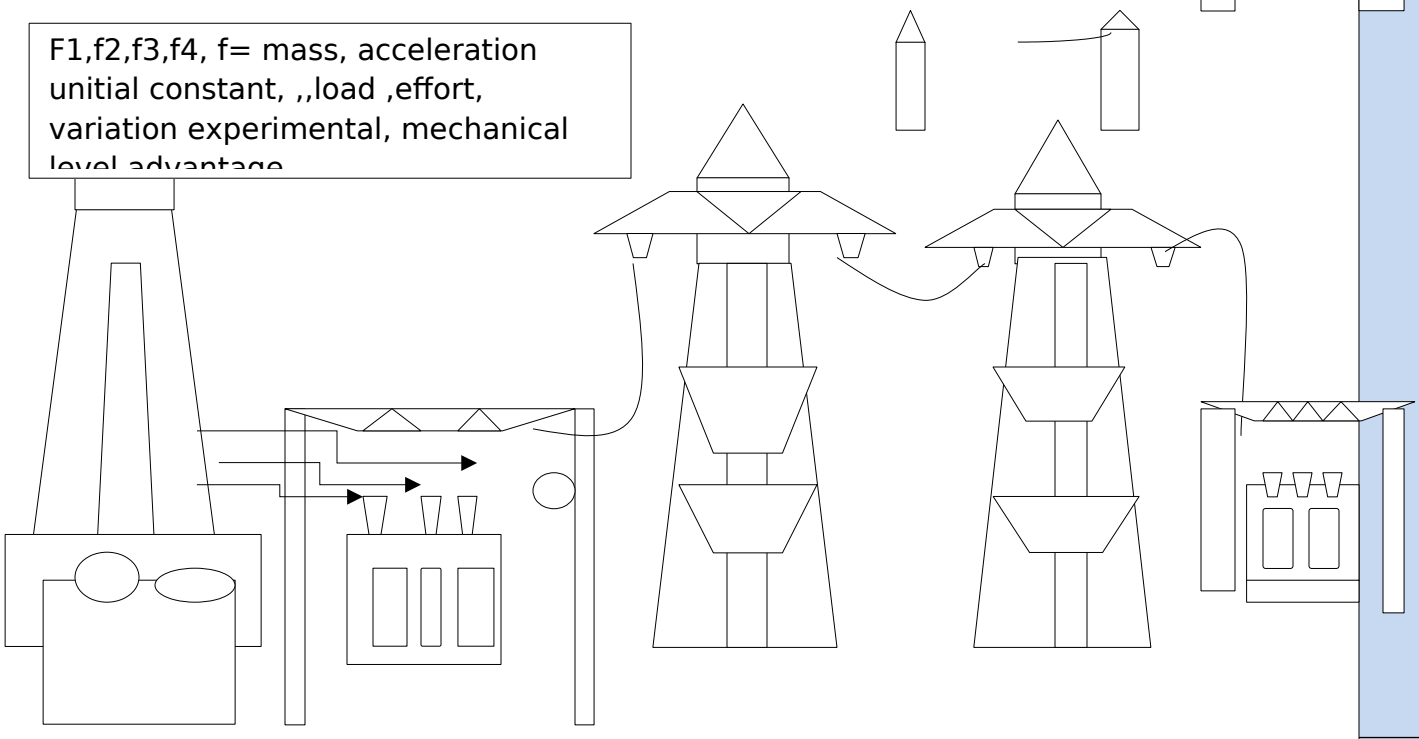
=3(1).(1)

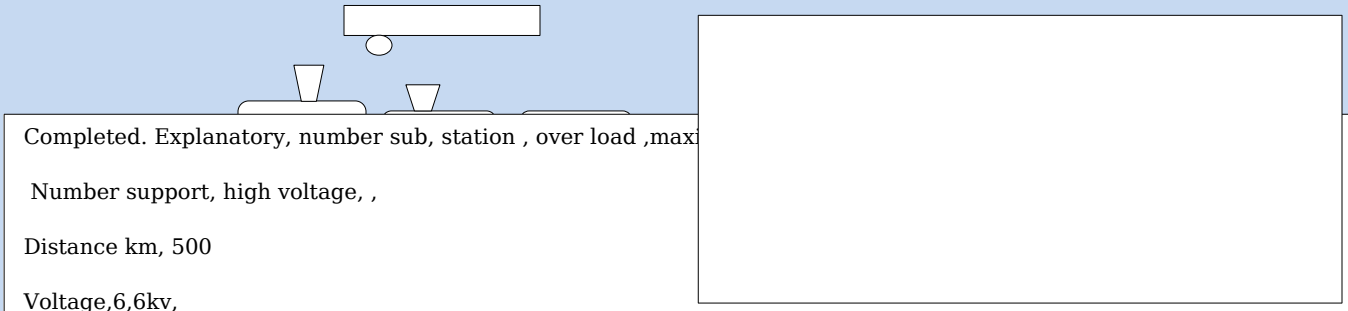
3x2=6 proof number mastering

EXPLANATOR:SCIENCE ENGINEERING , STAIC, KINEMATIC, POWER ENERGY WORK, HEATER , MATTER ANALYSE REPRODUCTION . MODULE DISCOVERY INVESTIGATION , LOAD ,,,



F1,f2,f3,f4, f= mass, acceleration unitial constant, ,,load ,effort, variation experimental, mechanical level advantage





Completed. Explanatory, number sub, station , over load ,maxi

Number support, high voltage, ,

Distance km, 500

Voltage,6,6kv,

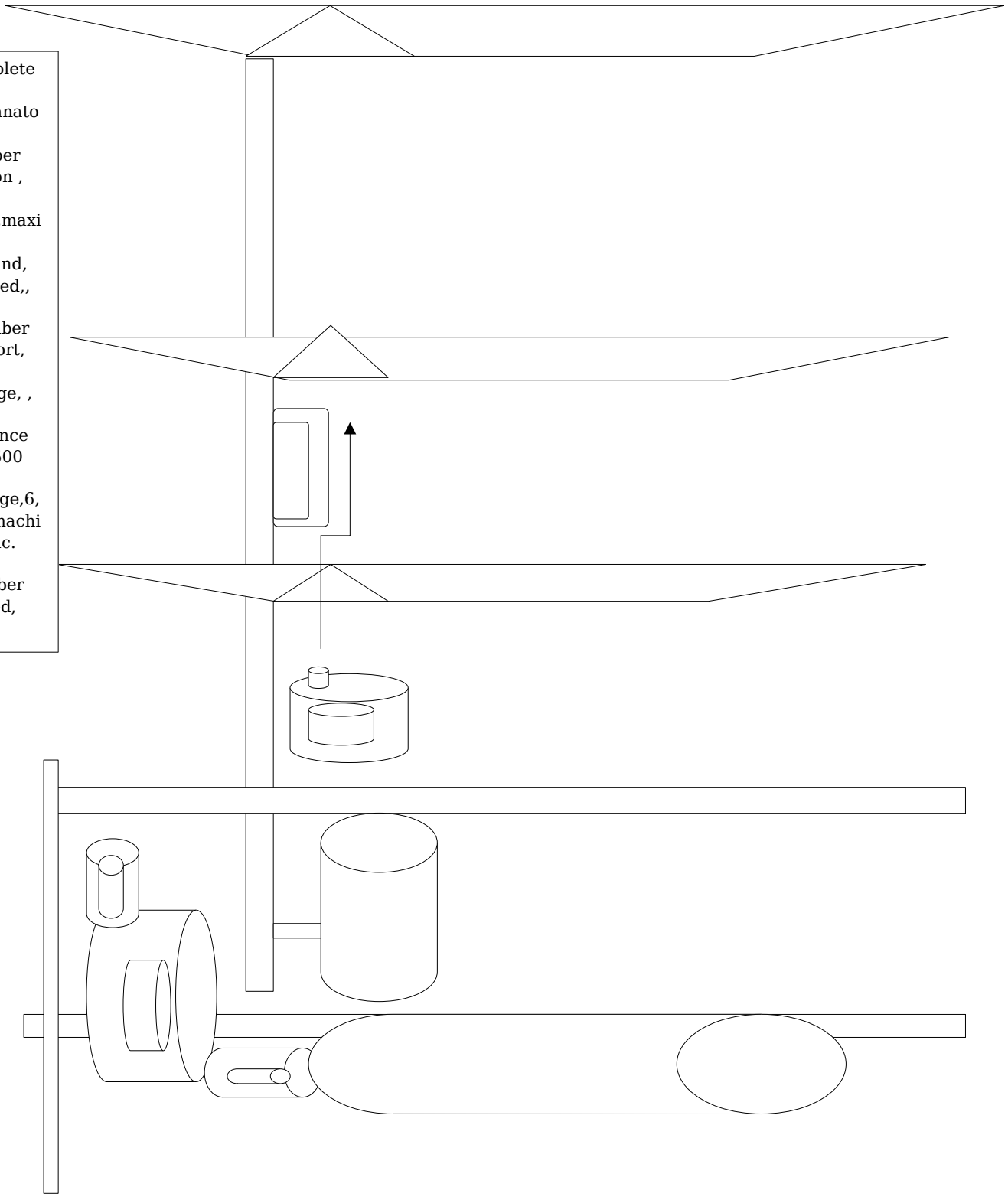
Number posted,

Main circuit breaker , ,insulator, section across wire, insulator 6,6kv number dielectrically, parallel, ,, diode dc high voltage industrial,

Vcc insulator, conductivity wire, heater effect , proximited, effect skin, effect joule, ... completed, reactance , network maille radial,,, constructor, design

Connection completed trading supply

Construction support structure



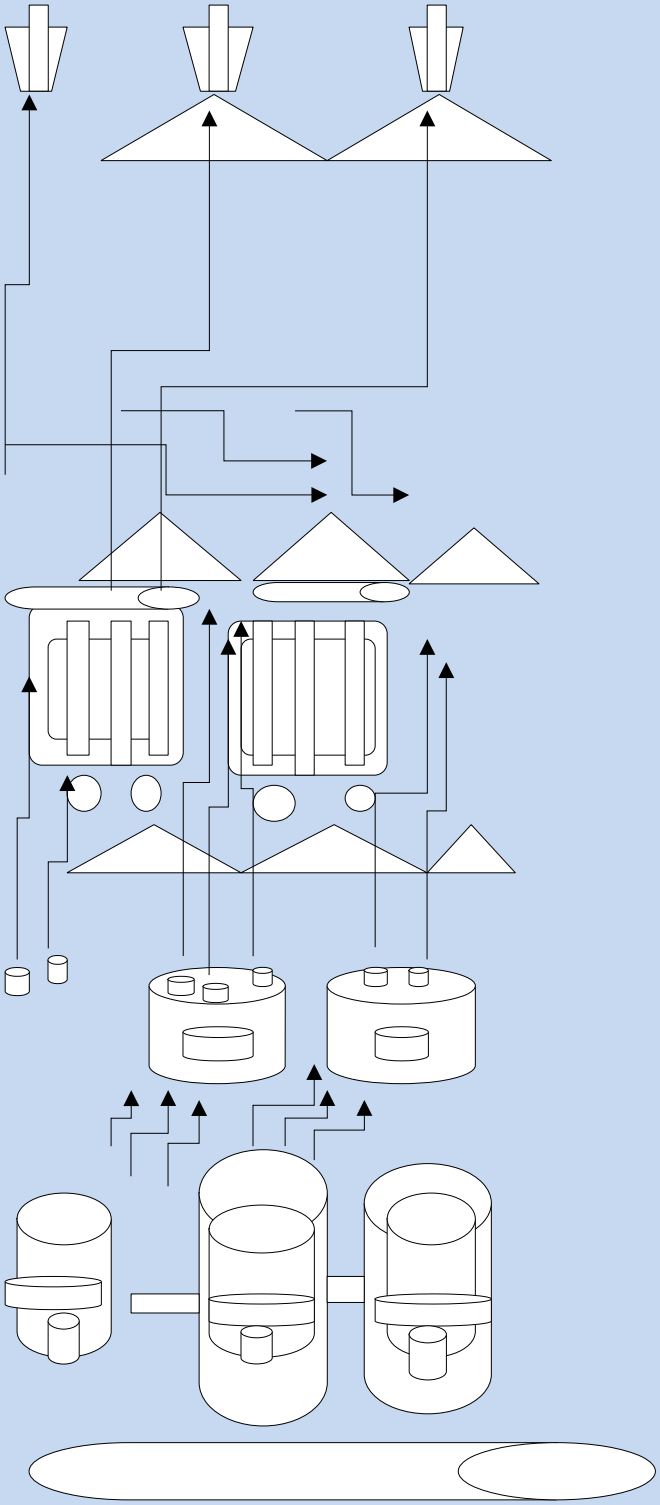
Complete d. Explanato ry, number station , over load ,maxi mum demand, allowed,,

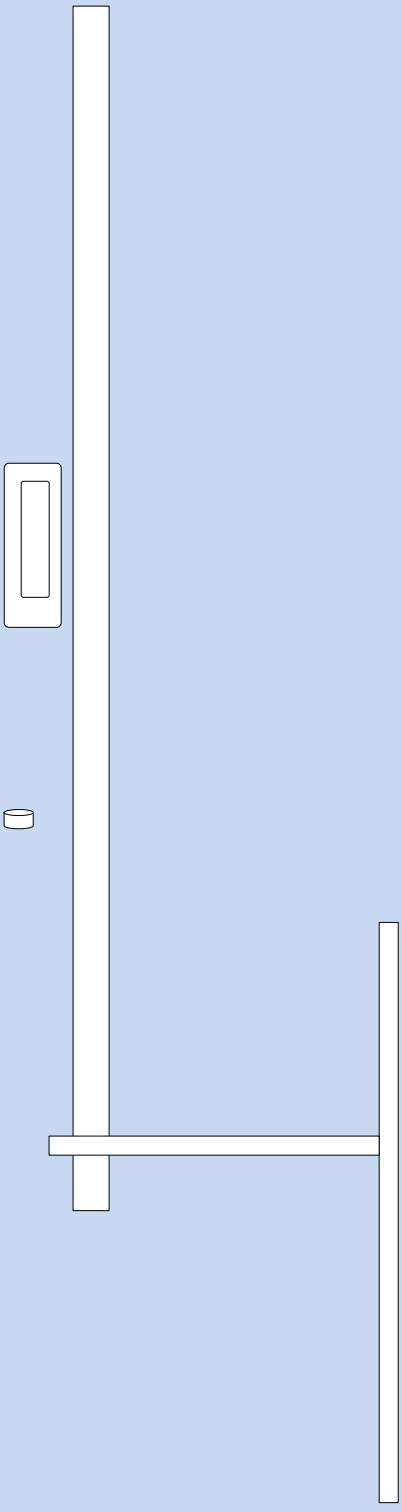
Number support, high voltage, ,

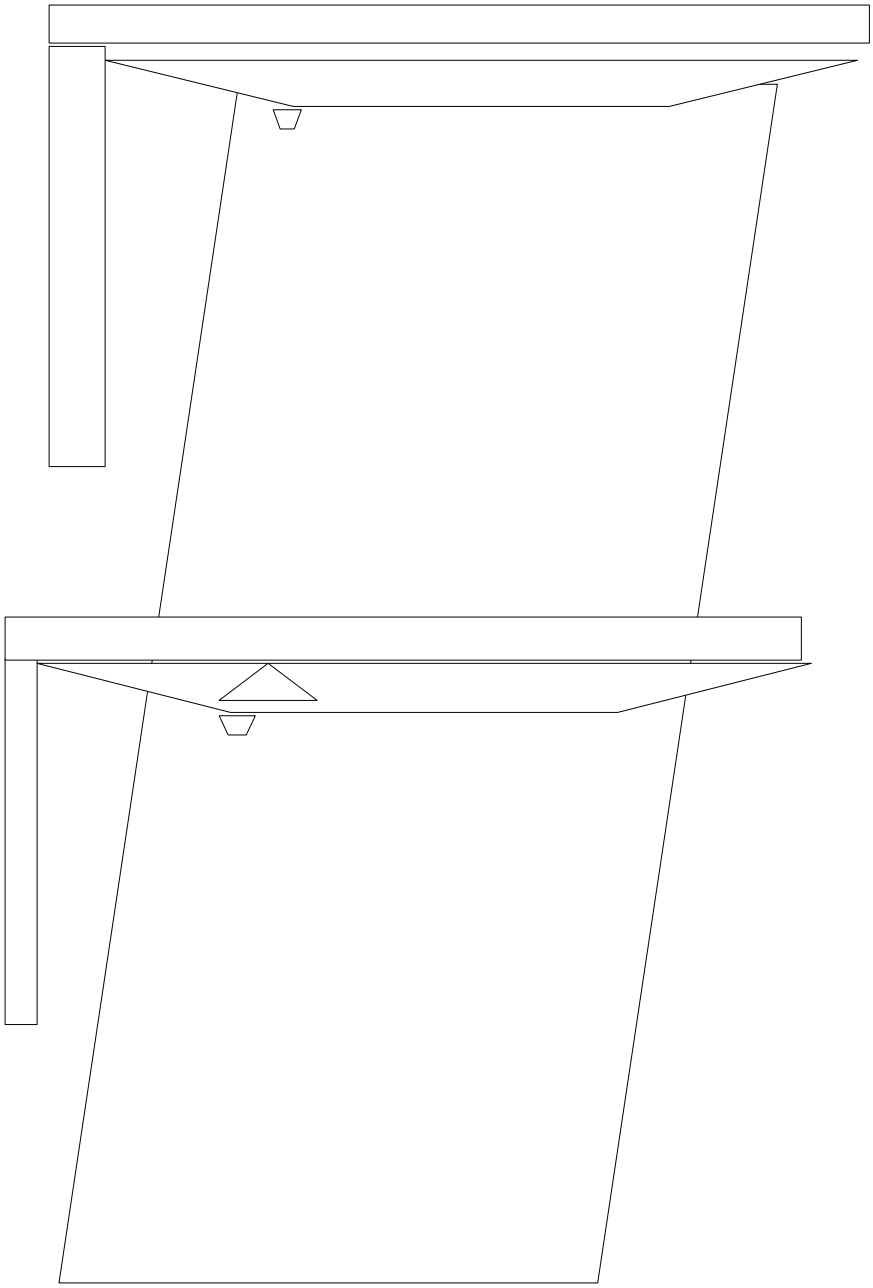
Distance km, 500

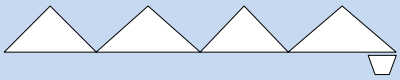
Voltage,6, 6kv,machi ne , ac.

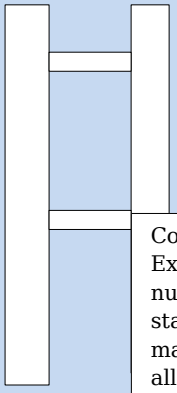
Number posted,

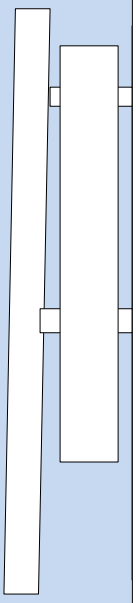












Completed. Explanatory, number sub, station, over load, maximum demand, allowed,,

Number support, high voltage, ,

Distance km, 500

Voltage, 6,6kv,

Number posted,

Main circuit breaker, insulator, section across wire, insulator 6,6kv number dielectrically, dc motor series , parallel, ,, diode dc high voltage industrial,

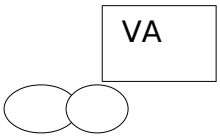
Vcc insulator, conductivity wire pantograph, coefficient,

Completed, , keep regime stationary , regime transitory, machine dc, on line over load relays, command machine, dc, ac current engineering, ,

Insulator high voltage 6,6kv mass dielectrically cv, ,,paratoner, fire escape,

, relays power, current maximum demand relais,,, wattmeter, ammeter, voltmeter, read, value, scale , calculating banking energy kwh,index,years

**COMPLETED CIRCUIT**



ANTENE , IT=I1+I2+I3+I4+I5+I6,

I1=IT- I2+I3+I4+I5+I6,  I2=I1-IT

VT=V1+V2+V3+V4+V5+V6+

RT=L,

RADIAL =IT1 –IT2

IT=I1+I2+I3+I4+I5+I6,

I1=IT- I2+I3+I4+I5+I6,

IN , SYSTEM NEUTRAL ,BALANCE I1=I2=I3.....IT LESS MORE, DELTA START

EXPLANATOR DEMOSTRATION HYPOTHESIS FOUNDAMENTAL : V=RI ,, EXPLANATION DEMONSTRATION ,

R= $A=\pi r^2 \rho$ = ρ .L/A... V = ρ .L/A.IT,,,,,,,,,,,,P=M.ACC..... DENSITY D SECTION ACROSS MASS ATOMIC , Z= IMPENDENCE , 1/Z CONDUCTANCE V=ZI . Z =R-X-C ..... 1/XC/// EXPLANATI

E1=V1I1+R

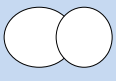
E2=V2+R2I

DEMONSTRATE DESCRIB E FORMULAKIRICHOFF HOM LOW ,JOULE LOW ,,EXPLANATOR HYPOTHESIS. EQUATION NETWORK COMPLETED , Z, COS R,Z

V=VA-VB VARIATION

EXPLAIN .....VALUE CONDUCTIVITY
RESITIVITY ,REACTANCE XC,XL,=

VB



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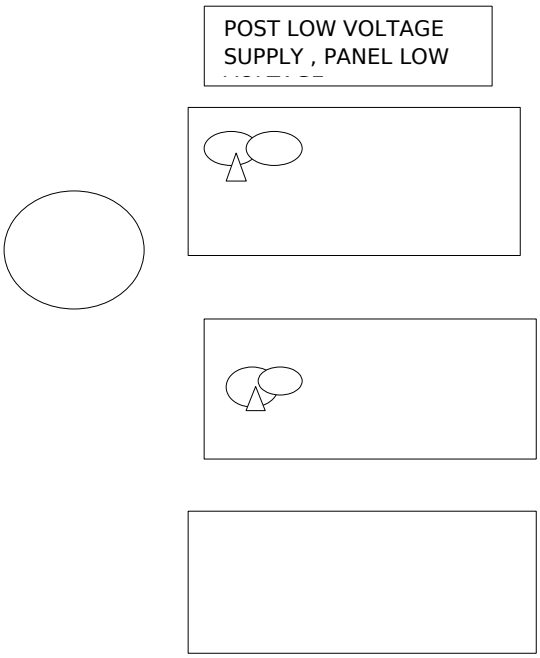
EXPLAIN. DB WIRE  POWER IN METER SQUARE , RM

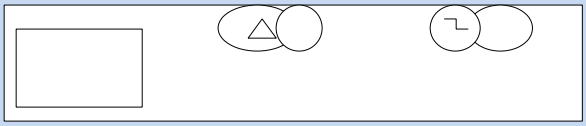
ADD , AMPERE METER, VOLTMETER,  DISCOVERY ANALYSE ENGINEERING ELECTRICAL, ENGINEERING DRAWING ELECTRICAL  SCIENCE ENGINEERING, TRADING ELECTRICAL ,WIRING ELECTRICAL  EXPLANATOR LOW DISCOVERY WIRE THING , REFOUND WIRE, STRUCTURE, LOW , DISCOVEY REFOUND CIRCUIT  OVERLOAD TIME DELAY ,  REACTION PROGTECTION, CONFIDENTIAL,,,, TRAFFIC LOW DISCOVERY  RALAY SWITCH  DB MAIN CIRCUIT REFOUND  , EXPLANATION NTWORK DISCOVERY SKILL CONDITION TRADING EQUATION TABLE,

..... INVESTIGATE CIRCUIT  TRIANGLE RETANGLE VECTOR ANALYSE  DISCOVERY LOAD CHARGE DISCHARGE CIRCUIT  LOAD, WIRE, FIND FAULT, DAMAGE WARING EXPLAIN LOW , MAIN CIRCUIT BREAKER COVERAGE TIME CLOSE OPEN DISCOVERY REFOUNF ,LOST

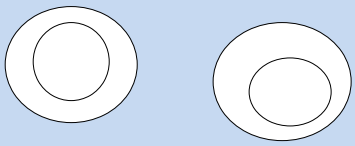
LOCK INTERLOCK, SYSTEM RMS, PEAK POINT COVERAGE MODULE TIME WORK,,REFOUND CIRCUIT, REDRAWING ,  , EXTRA WIRING MASTERING


POST LOW VOLTAGE
SUPPLY , PANEL LOW

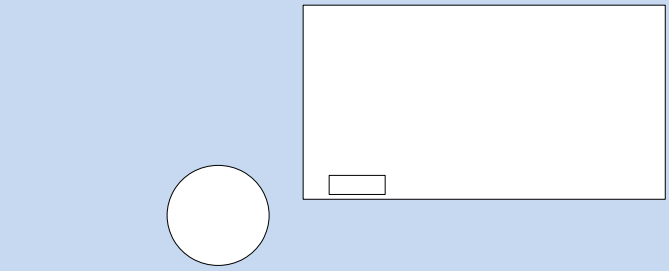
SUB STATION ,CIRCUIT BREAKER , RELAIS PROTECTION FAULT HIGH VOLTAGE. RMS. AVERAGE .



CONTACTOR MOTOR RELAIS CONTACTOR RMS, INSTANOUSE, POWER FACTOR INCREASE CUT CIRCUIT,,OVER LOAD



STATION , EMERGENCE CIRCUIT, INTERLOCK PHASOR, CIRCUIT REACTION VECTOR,



△

EXPLAIN DISPATCHING, TRANSMISSION, DISTRIBUTOR, GENERATION NETWORK, CABLING, ALLOWED , STANDING ACCORDING RULES EIC, CEBEC, SABS , SURFACE SQUARE METER , EXPLAIN ,,

CURRENT CABLING, CIF 5%,, ALUM,COPPER,

MAXIMUM DEMEND, PEAK, RMS, WIRING, , METERING WATMETER.

MAIN CIRCUIT BREAKER , ,RELAY, CONTACTOR DELAY TIME , GENERATING AC CURRENT AVERAGE,MAX MIN FACTOR , POWER ACTIVE POWER APPENTE CABLING , TRANSFORMER RATE TURNING MAXIMU ALLOWER

CIRCUIT RLC LINE TRANSFORME ,WIRE IMPEDENCE C CAPACITOR , LINE

**Science engineering material, trade electrical, electrotechnologie logic system electrotechnic engineering analyse discovering skill investigate sabs , sans premise eic, cem**

**Requirement matrial trade**

**Task,**

**Operational functionel,**

**Step , supply wire premise cabling ,,**

| Requirement matrial trade | Task, | Operational functionel, | Step | Policy Engineering dail | Maintenance equipment Drawing redrawing , |
|---|---|---|---|---|---|
| | | | Join cabling | | |

| | | | | | |
|---|---|---|---|---|---|
| **1max allowed Demand factr Cabling Relay contactor motor** | | | | | |
| **Ac motor** | | | | | |
| | | | | | |
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| | | | | | |
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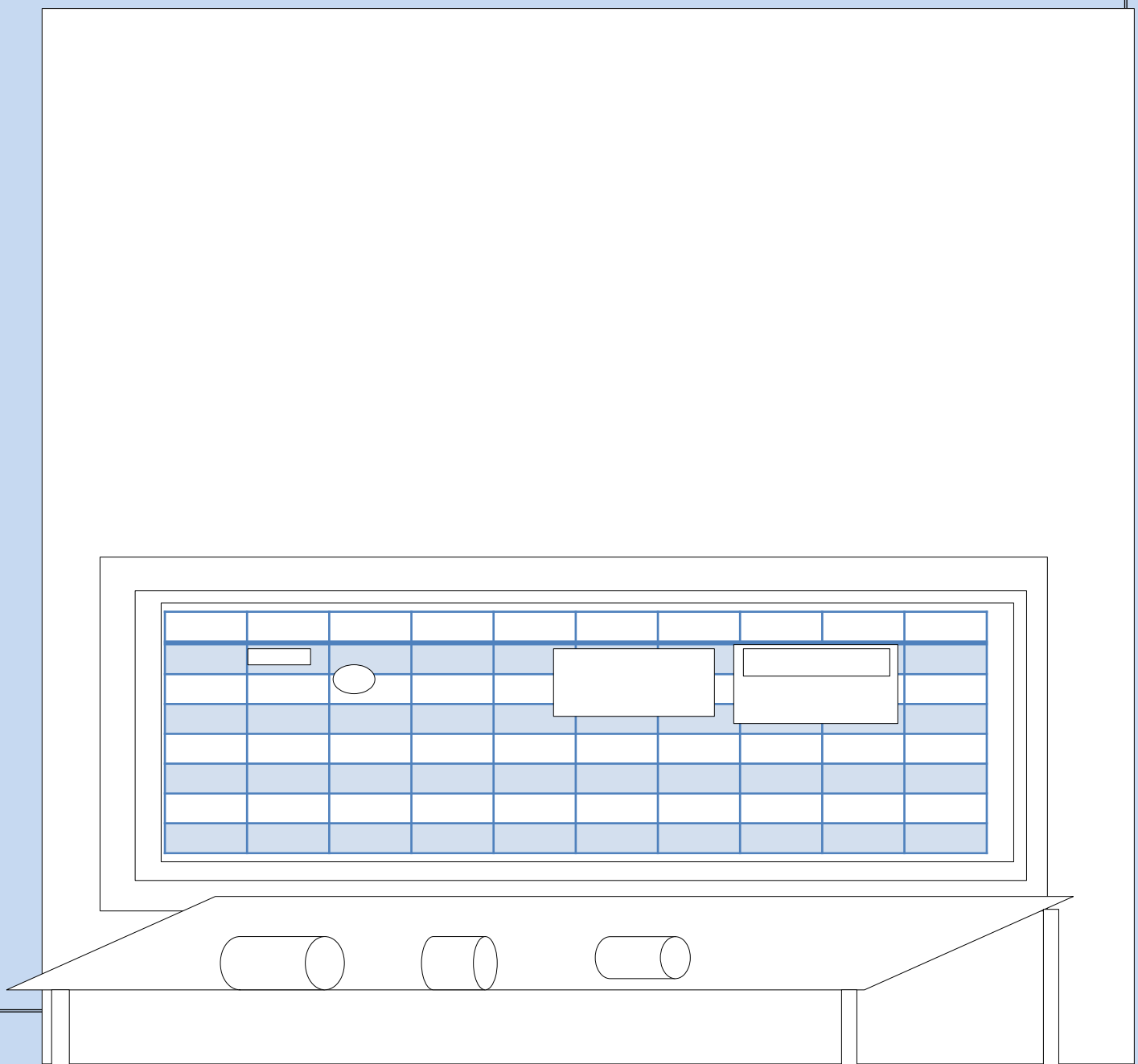

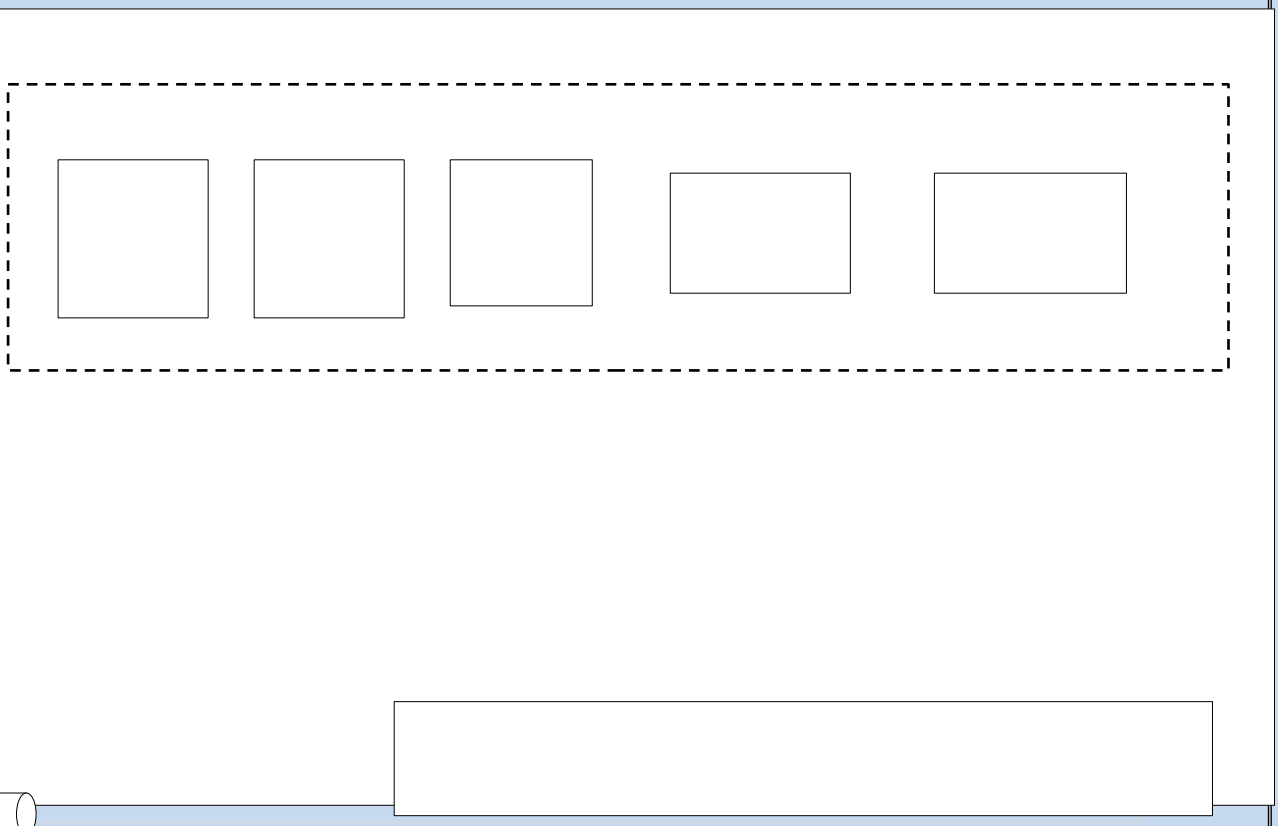

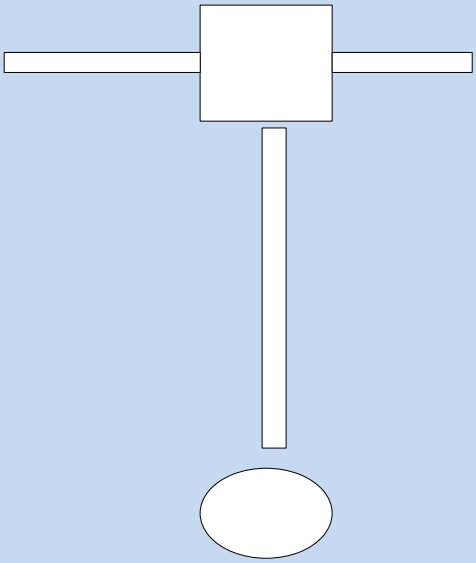

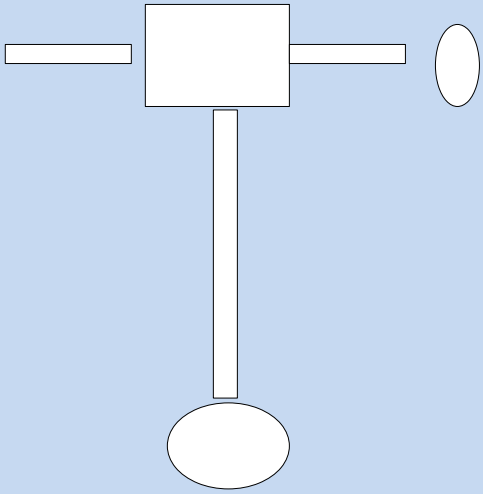

**Gauteng department of education**
June examination 2022 grade .time 2h hour page..master skills assessment questionnaire.detail.mark.time minute. Skill master matric question...
Trade theory electrical master skill phase trade note teach intermediary.basic..elementairseignor Portofilio.investigation analysis knowledge assessment module skill question value circular compare scaling weight mastering answering questions formal Summative value matric statement.question dreaming explain labell knowledge matric .. orientation industrial planing knowledge synthesis questions answered research fundamental formulation answers..trade theory electrical ..electrical technology logic AC DC current machine low ohm . impedance..resonance. researchreasoning..masteringrwiten CORRECT mastering circulars..

2.Education technology technical engineering trade theory. Educare engineering phase elementaire fundamental knowledge criterion. Intermediate seignor system control process teach lecture tutorial councils research knowledge design didactic model psychology test model development model sheet principle vocational AC DC current low evaluation.oscillator resonance watch guidelines pedagogy model method presentation lecon plan classroom management director class care . knowledge directorate trade theory educare development care maintenance inspection compliance sabs low compliance know legs magnetic.. industrial electronic .module activity lecon ac .DC.curent machine motor transformation measures transmission module knowledge module fundamental assessment.frameworkbregulatory info system knowledge recruitment policy lecture patrol lecon plan .director planing school phasing modules subject faculte.

ID : EVALUATION SAQA APPLICATION 20191130002

**_____, 202001305040/ 201911130002**

**ID: N1-N2,N3/N4/N5/N6 , N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**HIGHER. EDUCATION QUALIFICATION**

**-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/**

**- NO PROVISIONAL CERTIFICATE OR UNOFFICIAL STEMENTS**

**-CERTIFIE NO SUBMITE 1TH**

**-OFFICIAL STATEMENT FROM INSTITUT**

**- DIPLOMAT D'ETAT EXAM CERTIFIE / NO SUBMITED**

**-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**- REGISTRAR CERTIFICATE NO: COM 18269001: /**

**- ST PEACE COLLEGE LEVEL N ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:**

**-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE**

**- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT**

**-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%**

**-REGISTRAR FEES FINAL**

st peace college filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

**ST PEACE COLLEGE / AND A I P**

**FACULTY : ELECTRICAL ENGINEERING**

**St peace college assessment**
**Engineering faculty.**
**Filing admission examination**
**Regular irregularity**
**Submission completed :**
**Filing number :**
**Affidavit number record investigator :**
**Statement. I'd number invigilator:**
**Submission number date time :**
**Level . National n.diplomat**
**Level national n5..certificate**
**Level national n 6.**

1.Time table examination internal . .1.2.National trade examination
National engineering
Tech matric ncvs exam

2.Calender national technical vocational St peace college.

3.trade theory national examination time table :

4.Circulum policy matric n3.grade 12 final examination diplomat sylabus
Subject.
Weighting scale .
DBE time table subject DBE sylabus matric teacher note books circulum

Subject .NCs trade matric
Subject: n3.n6 caps
N3 trade theory electrical .industrial /grade12 trade theory
Master skill teach note book matric
Assessment .topic activity presentation oral formal Summative assessment
Exam saqa criteria school leavers

N3 /grade 12..orientation industrial)
N3/grade 12. supervisor industrial
N3/grade12.planing organization
N3/grade 12.mathematics
N3/grade12.engineering science
N3/grade12.economic businesses tourism
N3/ grade12.nursing health
N3/grade12..civilcarpentry build science
N3/grade12..mechanical .theory .diesel
N3/grade12..business English /basis English
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5.3 brickline building science .level exam textbook manufacture relate
5.4.panel wiring electrical level trade they electrical .mathematics . Textbook merseta textbook. Manufacture relate council engineering science engineering
5.5.plumbing firing diesel mechanic
5.6.policing traffic theory national examination theory .
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5.8.Development system it

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7..n1.n2.n.3.n.4.n.5.n.6 . Engineering trade national diplomat certificate engineering time table short time full time table high education engineering
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7.3.Civil engineering time table .
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Sylabus close book examin national engineering diplomat ..
Time table trade theory electrical engineering fundamental n basic system system trade design process trade control trade fabric trade engineering .. fundamental operational requirements trade sylabus explained.

NQF engineering councils engineering trade council .councils education
Textbook engineering art creativity analysis investigation skill
Engineering licensed fundamental.ystem process fabric. Completed exercise textbook. Resolve solve assessment engineering..
examination outcom entry exhibition time table
Level.n1.fundamental basic power engineering study . qualifications NQF.1.2.3.4.5.6.7.
invigilator investigator
Textbook questions explanation
Career system advanced machine...control process..projet fabrics
Certificate.
Institutor engineering framework regulatority engineering..

Irregularities center poor rwong policy rwong framework regulatority...

8.educator technology technical .phase assessment inspection tutorial lecture ..
Ergonomics psycholmetric .intermediary elementary seignor teach fundamental
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Professional.professor tutorial counseling vocational.principle .NQF
Educare n4.n4engin labour n4.
Subject ..lecture
Research TVET lecture doc n7...

**Poe verification coverage**
**Designing model didactic**
1.subject /assessment task//mark allocation///content average////student programmer////
2.electrical trade theory . electrotechelectrotechnolgy, mathematics , engineering science physics engineering, engineering science.drwaing /assignment//310,302,1000,module safety . studentprogrammer.week study completed
!!!!Engineering processing design low requirements allocation synthesit verification task . sequencegov item 3month 6minth progress
Subject/term 1//term2//total
1.Evidence low organisation supervisor planning
1 .2. Low: supervisor and management product labour low educareeducationelintellectuel care low didadic
Low: engineering final process business engineering career natural low psychometric phenomenon.
Deputy TVET marketing motion policy low framework regulatority mandate irregularity engineering trade reports 190.
Low system development code line Colum matric vertical value..
Low assessment portfolio documents wallet flic floc timer compare electronics mail disclaims posted Relais communication ordering address policy security.message posted officer system cloud protection documents missing documents assessment address postal.
Low policy engineering information management system vsiplylowgov skill administration low implementation system LRA relation labour
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Low test humain resource bpolice induction learner motor industry skill
Low safety police security Union btrade theory electrical gov machinery labour health license commission compliance installation EIC low safety Anand commission motion low safety amand EIC sabs gov framework TVET low compliance training.
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Low recreation designing low communication system cloud policy information management system licensed jurisdiction term regulatority 10142-1size minimum $10^{o}$000max Portofilio docket system build database relay gate door home control room .space network geotech limited not traffic design try low access control .
Low synchronisation asynchronous information library algebraic system motion rescission safety policy electrotechelectrotechnolgy fundamental power achieve value Poe refund system development cloud police record of legal rescission it rescission engineering recreation trade unions policy procedure labou missing fault dismissed scam spam criminal schedule officer.commission EIC cebec bible ..

Police resolve crime admni information final
Administration learner registration attandanceinvigy learner filing attandancefacitator.learner reward information pay attention.

Low Poe evidence police operational principal low command and control and of land army assessment police operational detention.operation enforcement compliance assessment offence defense patrol methods investigation criminal interview and low enforcement.vrrification enforcement traffic control potential cause determine land record.evidence collection item recommend framework verification subject industrial electronics module electrotech engineering science module allocation mathematics n1.n6..
1.system engineering process management low system process overview required analyse allocation design synthesis verification.wprk break down structure configured

Integration cost and function allocation primary task define sequence functional gov item planning work cost prior.work breakdown electronics system hardware softward data measure test measure support system header switching defense business systems quality long.life..
Verification system engineering fundamental low to explat power distribution system electrical noise communication system bonding shield group safety lightning discharge fault protection communication marking priority output physical architecture product elements decision databases input function archicad enable ipts decision databases.autimate control constrain.
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//)Poe evidence low mathematics rules low term monomial binomial trinomial polynomial factorisation.loq sign sum low differential.product quotient low addition subtraction.multiplication.division.low of exponential power low trigonometric angle triangle algebraic identify.low limited low continuity function reasoning low derivative function existing relation.low identify trigonometric.exist.low of integration...
///Poe evidence low physical engineering low system international low symbol name unit name of law relate meter kilograms litre Newtown kilograms lows Pascal amperage ohmwatjoulCelciuskelvin.voltage meter per second.secondkilometres voltage per square metre.henry.faad.herz .
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Low equilibrium anticlockwise.moments equals to clockwise
Low moment of cylinder volume
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PV=m.r.t
Low hook expensive young module reduction low gravity force object Newton..
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Low connected alternator 1200 rev.low transmission line supply power reaction load.pf.linge voltage Eo=VP.zr/Za..cos/.r=R/zr,. S2π.t.(ns_nr)/2π .
Low power factor line current power p=√3.IL.cos.
P1=vl.ilcos(30+0); tanπ=xo/ro. f=n.p/60.... Eo=n.eff/√3. Zo=R+jix...
Low induction motor E=2,22.k.d.kp.z.|.f.
Poe evidence reasoning judgement low relate construction electronics industry components drwawing electronics switch connector schematics industrial circuit electronics logic.zt=1/z1+2/z2+1/z3.
Low high information filter phase is oscilloscillator motion .low filter LCD.low stable voltage outcome.
Low control voltage frequency counter low detector transducer bridges thermostable .low trigger circuit operational.low explain transistor fixe bias common emittor .
Low explain make wath difference into divider bias RB.rc.vbe.vce..device faulty labell.
Low criteria oscillator irrespective of type wave produced frequency oscillator must stable amplitude output constant provision mode for positive feedback.low required timer 555precission functional monostable DC voltage converter.low operational amplifier audio .apvoltage.non inverter summing.
Low have different ialVo(t) integration comparator..low instrument evidence Schmit trigger and test low type.
Wath alternator difference integrator
Attandance police theory trade..
Formal test 1.2. level
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Exam
Test topic crime prevention..
Assessment task according to the schedule.

The assessment tools or instruction.rexord of marks
1.Number of units/assessment/coverage
2/formal written test)/one completed topics.
1./interbak written exam /.)all completed topics .
2.practical assessment coverage the related subjects outcom 2320..
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7..n1.n2.n.3.n.4.n.5.n.6 . Engineering trade national diplomat certificate engineering time table short time full time table high education engineering
7.1.Electrical engineering time table .
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NQF engineering councils engineering trade council .councils education
Textbook engineering art creativity analysis investigation skill
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examination outcom entry exhibition time table
Level.n1.fundamental basic power engineering study . qualifications NQF.1.2.3.4.5.6.7.
invigilator investigator
Textbook questions explanation
Career system advanced machine...control process..projet fabrics
Certificate.
Institutor engineering framework regulatority engineering..

Irregularities center poor rwong policy rwong framework regulatority...

8.educator technology technical .phase assessment inspection tutorial lecture ..
Ergonomics psycholmetric .intermediary elementary seignor teach fundamental
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Subject ..lecture

Research TVET  lecture doc n7...

**TSHINGOMBEKB TSHITADI** Tue, Aug 9, 1:45 PM (5 days ago)
**<tshingombekb@gmail.com>**

to
me

1.Reasoning for irregularities no submitted.
2.Reasoning judgement no filing dismissal
3.Reasoning method trade required meeting subject
4.Reasoning
Irregularity statement  answered.

Irregularity affidavit answers sock
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Resolving assessment
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Tue, Aug 9, 3:44 PM (5 days ago)

to
me

Institute and college assessment exercises book
1 .Time..08:00-08  -90/08:40-09-20/09:20-10:00/10:40-11:20/14:00/
2 .Week day :award certificate course assessment guidelines information guidelines orientation research . Engineering ass./ass test trade exam// assess information orientation assessment engineering exam /// information orientation assessment////information orientation assessment

engineering////information orientation assessment.swmester 1 term 1.2.3.
3.week certificate : assessment engineering trade theory electrical, industrial electronics.mathematics ,physic engineering , engineering science drawing Engineering./trade theory electrical industrial mathematics physics Engineering // . Trade theory /// trade theory//// semester 2.term years 4.5.6
4.Week certificate:ass schools educare ,ass engineering.assessnated assessment test /...//...////.../////.../////semester 3.term .7.8.8
5.week certificate : asssessor schools efuc ///.////.//// Semester .10.11.12 term
6.week certificate : schools engineering nated .. semester 5.yerm 13.14.16term
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Time table open outcomes /ass career award information orientation schools self assessmentexament July December November/assessment orientation supervisor planing ass//ass com crime method regulatority info .. orientation EBM communication skill..ass plan paralegal m.t.discount term 18month..

Institute and college assessment award price recognised learner
_assessnent award certificate course assessment
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Learner allocation subject 5/4
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Regulatory 18month2year week presentation credits exercise
Name/surname/I'd number/subject course/ time sign
Tshingombe/Tshitadi.

Total record attandance award 18 months irregularities internal external on line presentation oral Facitator
Information pay files irregularity documents system judgement report marke internal and external.analyse grid icass rubric material trade theory problem material learner solve station police

Time table subject course class studie engineering circulum assessment police and assessement engineering integrity exercise book note book completed system manueldisciplinairy learner conduct , manuel guideline orientation outcome / learner , inspect moderato ,

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|---|---|---|---|---|---|---|---|---|---|
| **1 .Time** | **08:00-08 -** | **-90/08:40-** | **-10:00/1** | **11:20/14:00/** | **14/** | **14** | **14** | **14** | |

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|---|---|---|---|---|---|---|---|---|---|
| | | **09** | **0:40** | | | | | | |
| **Week 1day 1** | award certificate course assessment guidelines information guidelines orientation research . Engineering ass | ass test trade exam | assess information orientation assessment engineering exam | information orientation assessment////information orientation assessment engineering////information orientation assessment.swmester 1 term 1.2.3. | information orientation assessment////information orientation assessment engineering////information orientation assessment.swmester 1 term 1.2.3. | | | | Semester 1.2 Term1,2,3 |
| **Week 2 Day** | Frame work | Man syt,ass | infor | Ass infor,as | Ass. | | | | semester |
| **Week 3** | certificate : assessment engineering trade theory electrical | industriale lectronics. Mathematics | physic engineering | engineering science drawing Engineering./ | electro t | Instrul | ptotc | | Term semmester |
| **Week 4** | certificate:ass schools educare | ass engineering.assessnated assessment test | com crime method regulatority info | orientation EBM communication skill | ass plan paralegal m.t.discount term 18month.. | | | | term |
| **Week 5** | orientation supervisor planing ass// | | | | | | | | term |
| **Week 6** | | | | | | | | | term |
| **Week 7** | | | | | | | | | term |

Institute and college assessment award price recognised learner
_assessnent award certificate course assessment
_assessment certificate diplomat
_a conduct assessment registered days

Learner allocation subject 5/4

**High education training.**
**Department training.**
**High education and training**
**Your examination number/usamenhonommer**

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Examination centre/Eksamenentrun
..,.....
Subject/bank,.....level/...
First ..second .papers
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QUESTIONS/MARK/PUNTE///INITIALS////FOR REMARKING HERMERK
1/H.T.U/..M.SM.CM.////.HT U/E.INITIAL
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| **QUESTIONS** | **MARK/ PUNTE** | **INITIALS** | **FOR REMARKIN G HERMERK** | | |
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| **TOTAL..** | | | | | |

INSTRUCTION TO CANDIDATE REGARDS THE RWITEN OF THE EXAM
Department of higher education and training.
Republic of South Africa
ADMISSION PERMIT AND EXAMINATION TIME -TABLE.
50408782 N4: ENGINEERING STUDIES

(REVISED)
EXAMINATION NUMBER 2100002023812..ID
EXAMINATION CENTRE
899993812 SHALOM TECHNICAL CENTER .PTY LTD
AFRIC TRAINING

SUBJECT///PAPER ////DATE//// TIME
F8080074 ELECTROTECHNICS N4 EXTERNAL EXAMINATION ////1//20220201////9.000
F8080164 INDUSTRIAL ELECTRONICS N4 EXTERNAL EXAMINATION///1//20220208////9.0
F15070434 ENGINEERING SCIENCE N4-EXTERNAL EXAMINATION 1 200220207//9.00
F16030164 MATHEMATICS N4-EXTERNAL EXAMINATION/1//20220207.9.00
FULL TIME.P.
RE MARKING FOR REMARKING XHEING MUSTE SUBMITTED WITH 10 DAYS AFYER THE RELEASE OF THE RESULTS AT CD NEA ..
CANDIDATE ARE RESPONSIBLE TO ENSURE THAT THEY RECEIVE THE CORRECT QUESTIONS PAPPER TO ENSURE THAT THEY RECEIVE THE CORRECT QUESTIONS PAPPER.
N3 ELECTRICAL TRADE THEORY N3.2022. ..
ID 2004007064381/

Formal technical INSTRUCTIONS in the ra report 191..n n3. ..191..
I'd evaluation saqa application 2019113002/20200130540
Formal RSA 191. Assessment task the icass trimester engineering studies .2010002023812/2004007064381/2011007434332..subject week 2,4//,5,6//8total 2test natural science engineering..
75 78 lecture day general business services lecture.

899993812 center St peace college n5/ n6 , 2100002023812..ID
revised

| SUBJECT | PAPER | DATE | TIME |
|---|---|---|---|
| **F8080074 ELECTROTECHNICS N4** | internal | 20220/ | 9.00 |
| **F8080164 INDUSTRIAL ELECTRONICS N4/n5/n6** | internal | 20220/ | 9.00 |
| **F15070434 ENGINEERING SCIENCE N4/n5/6** | internal | 2022/ | 9.00 |
| **F16030164 MATHEMATICS N4/5/6** | interal | 2022/ | 9.00 |
| **N3 ELECTRICAL TRADE THEORY** | | | |
| **INSTALLER RULES** | | | |

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Analysis grid for all test and must be submitted for Pre assessment moderation..
Subject level learning objectives//questions/formative/short responses /medium response/extend response /mark

| **Subject level learning objectives** | **questions/ formative** | | | | |
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**Weighting:The following weights are consequently awarded to each category**

**CERTIFICATE AND DIPLOMAT ENGINEERING ELECTRICAL**

| **Knowledge and Understanding** | **APPLYING** | **ANALYSE SYNTHESIS EVALUATION** | **INVESTIGATION DISCOVERY/ DESIGN / ASS POL** | **TOTAL CRITERIA CLOSE** |
|---|---|---|---|---|
| **3--40** | **30-40** | **20-25** | | |
| | | | | |
| | | | **40 ,60** | **10 POINT SCORE** |
| **REQUIRED TASK OPERATION** | | | | |
| **MATHEMATIC** | | | | |

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|---|---|---|---|---|
| **ELECTROTECH**<br><br>**POWER MACHINE**<br><br>**ENGINEERING SCIENCE** | | | | |
| | | | | |
| | | | | |

**STUDENT NAME : TSHINGOMBE TSHITADI**

**ID NUMBER :**

**ID DIPLOMAT NUMBER : ..Q**

**SHEET MARK SUBMISSION EXPLANATION EXAM**

| **MODULE /SUBJECT ELECTRICAL ENGINERING** | **WEIGHTING** | **OUTCOM CRITERIA CREDIT CLOSE AWARD SCORE FINAL /QUALIFY** |
|---|---|---|
| **MATHEMATIC**<br><br>**1.**<br>**2.**<br>**3.**<br>**4.**<br>**5.**<br>**6.**<br>**7**<br>**.8** | **100MARK** | **MIN / MAX 100MARK** |

| | | |
|---|---|---|
| **ELECTROTECHNICAL** | 100MARK | |
| **POWER MACHINE** | 100MARK | |
| **ENGINEERING SCIENCE** | 100MARK | |
| **ELECTRICAL ENGINEERING DIPLOMA / STATEMENT STATEMENT** | 400MARK / | 400 MARK |
| **RATING** | | |
| | | |

SCHEDULE CASE REGISTRAR ATTATNDANCE RECORD SHEET AMANDEMENT TEXTBOOK WEEK COMPLETED COVERY , INVIGILATOR, AMANDMENT COPYRITH DARLO. / N1-N3////N4-N6

| NAME SURNAME | WEEK /PRESENT ABSENT | ID NUMBE, TEXT BOOK NUMBER ISBN | CELL PHONE /TIME/IN OUT | SIGN |
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allocation /Toalmark.multiple choice medium response short explanation description required a couple's of sentences .extere response long explanation required.pre assessment moderate process lecture response settings a test assessment task.pre assessment.. responsibility time hod.. subject lecture trimester semester manage due.technical criteria content coverage..final approval of the asssessor check layout font submit.. analyse grid.1.2subject aim learner objects are listed.conceptual visual level indicator per questions instruc.spreadconcept..formal cleared correct check page break spacing criterion content..content lecture subject assessment file item file.class registered subject sylabus work schedule plan work plant pace .plan lesson and teaching resources.
Evidence of additional support task as required improve.munite of subject meeting.does does the assessment file containing,.moderatorreport.evidence of post assessment moderate handrwite or ... subject.level.program drop total.percentage total plane .. trimester assessment task tool content duration mark moderator submission date Pre assessment.assement date completion date of post moder..
**1.Subject. Years.... trimester ..**
**icass trimester mark sheet..Cass mark task**
.final icassmark..test..test convent the mark to weighted /%total 100..

**Irregularity..forfeitresultat be suspended from writing exam for 11month..examadminission permit and examination instructions.... Check.**
Task efficiency time management..standardrequired.correctly per the standard required.4_5.
Required struggle management organisation completed..correct task standard.
Task criteria possible weight area..
Evaluation is conducted continuously means two formal test college test mark 40bfinal exam electrotech engineering
Knowledge and understanding., applying, analysis synthesis and evaluation. Rwiten
Information processing n5.n.6
..guidy marking.

The candidate cannot fail because could not completed or pass the timed accuracy.
Total questions Papp ..pepetive  accuracy process errors must indicated red repetitive accurate..
All key.
Method marking..possible mark .if only 1/4of questions is completed original mark will be used for marking of questions complex originally..
Mark for all the question .row mark diverse by 3..
Questions continued.
Total mark .=50 1/2= accuracy =40
Display=10..becomes full mark ..
2.computer practice
Database documents the doc save.diagram chart. Show step step. Diagrams the represents an Lgorith.
The boxes are connected by line arrows.can give step problems.
Organisation structure of a company.
Structure not .
Process operational brepresented .
Connecting arrountflow .

3.sectiom basic principles of law .
Section b account.

**High education department / saqa / st peace college  portfolio  tshingombe tshitadi**

**1..register saqa admin .national framework regulatory qualifications . institutes foreigners/**

**Credit subject entry .nqf1.12..**

**Award diplomat work day certificate.1th,.2.th.,3th,,4th level**

I'd number submitted.. record

Academic transcript learner student lecturer..

N national certificate diplomat.

Credit equivalent entry  evidence explain

50%..50/100..equivalent. award minimum. meeting

Name surname credit accredit  minimum

I'd/name/years qualifications//provision//. Move file in out

| I'd | Name surname | years qualifications | provision | file student | submitted document file | Courses attendance | exam attended |
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| **Total Entry Move Performance** | | | | | | | |

**Move file submission student term 1,2,3,4,5,6 / semester periodic record / 3month entry 2 week lecture move ,**

| **Subject File student** | **subject** | **term** | **years** | **score** | **Final marks** | **Final point** | **Finl submiss doc** | **Final att** | **Final exam** |
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**1.register_national_examination ,**

N diplomat. Examination n 1.n6 diplomat t1.

I'd /name /years///file student/submitted document file///

Courses attendance////exam attended

| **I'd** | **Name** | **years** | **file** | **submitted** | **Courses** | **exam** |
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| number | surname | | student | document file | attendance | attended |
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I'd number registered.regulier  diploma n

18month.attandance.term 1.term2.term.3week

Level1.2.3 minimum engineering electrical learning national trade

Registered.. regulier/

I'd number  candidate.//.I'd regulier.//

I'd name///class level///file number//submitted number ///documents attached

National

| I'd number | class level | file number | submitted number | documents attached | Courses attandance | exam attended |
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N1,N2, council test trade .

Councils education..

I'd number candidate irregularity register

Reg .I'd number submitted.

Rectorat college director principal

System

College internal registered. St peace

And institutor ..distance university

.grade..1..12... level 1.2.63.4.5.6

Under graduat .1.2.3.4

Learner

Teacher

Lecture

Professional

Subject faculty  admnise

Regularity .. irregularity ruling

I'd name . Term 1.2.3.4.5.6.7.8.9.semester1,2

Report internal diploma.certificate award . internal  statement internal report . homework classwork test .exam internal sylabus hand book campus module practice.

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| **.grade..1..12... level 1.2.63.4.5.6** | |
| **Under graduat .1.2.3.4** | |
| **Learner**<br>**Teacher**<br>**Lecture** | |
| **Subject faculty  admnise** | |
| **Regularity .. irregularity ruling** | |
| **I'd name . Term 1.2.3.4.5.6.7.8.9.semester1,2** | |
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Report internal diploma.certificate award . internal  statement internal report . homework classwork test .exam internal sylabus hand book campus module practice.

Assessment assignment homework practice theory skill give to student to prove if student at home classes on completion is capable to resolve trade theory Test is capable to working by self group peer

Module correct diagnostic

Manufacture maintenance testify attest award brevet certificate is true

Recording examination.diplomatic to council of test function working yes and to evaluate grade level n it test comming rather working nice.

T

**Test circuit.nice erroneous value home.**

**Test operational  Commission.**

1.homework class work exercise books topics research on line Poe exercise book.//capacity to make reproduct  analyse rwiten.///criteria minimum requirements 100

| **homework class work exercise books topics research on line Poe exercise book** | **capacity to make reproduct analyse rwiten** | **criteria minimum requirements 100** | | |
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2.test evaluation module topics test research Poe's /functional school academic task system function.///

| **test evaluation module topics test research Poe's** | **functional school academic task system function** | | | |
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3.examination evaluation diagnostic module external internal /low competency year term weekend rating period achieve rerwite.

| examination evaluation diagnostic module external internal | low competency year term weekend rating period achieve rerwite | | | |
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Remark.////

Skill engineering

Criteria meet award low saqa questions5 interpretation

Operational control

Good

..

Designing... workplace workshop..

...

[Message clipped] View entire message

**TSHINGOMBEKB TSHITADI**
**<tshingombekb@gmail.com>**

Aug 20, 2022, 9:03 PM (14 hours ago)

to
me

Check.procedure check calibration operationa explanation material conduct insulation magnetic Armie conductor low.

AC.rc current installation check panels check. Calibration operational current formula low.

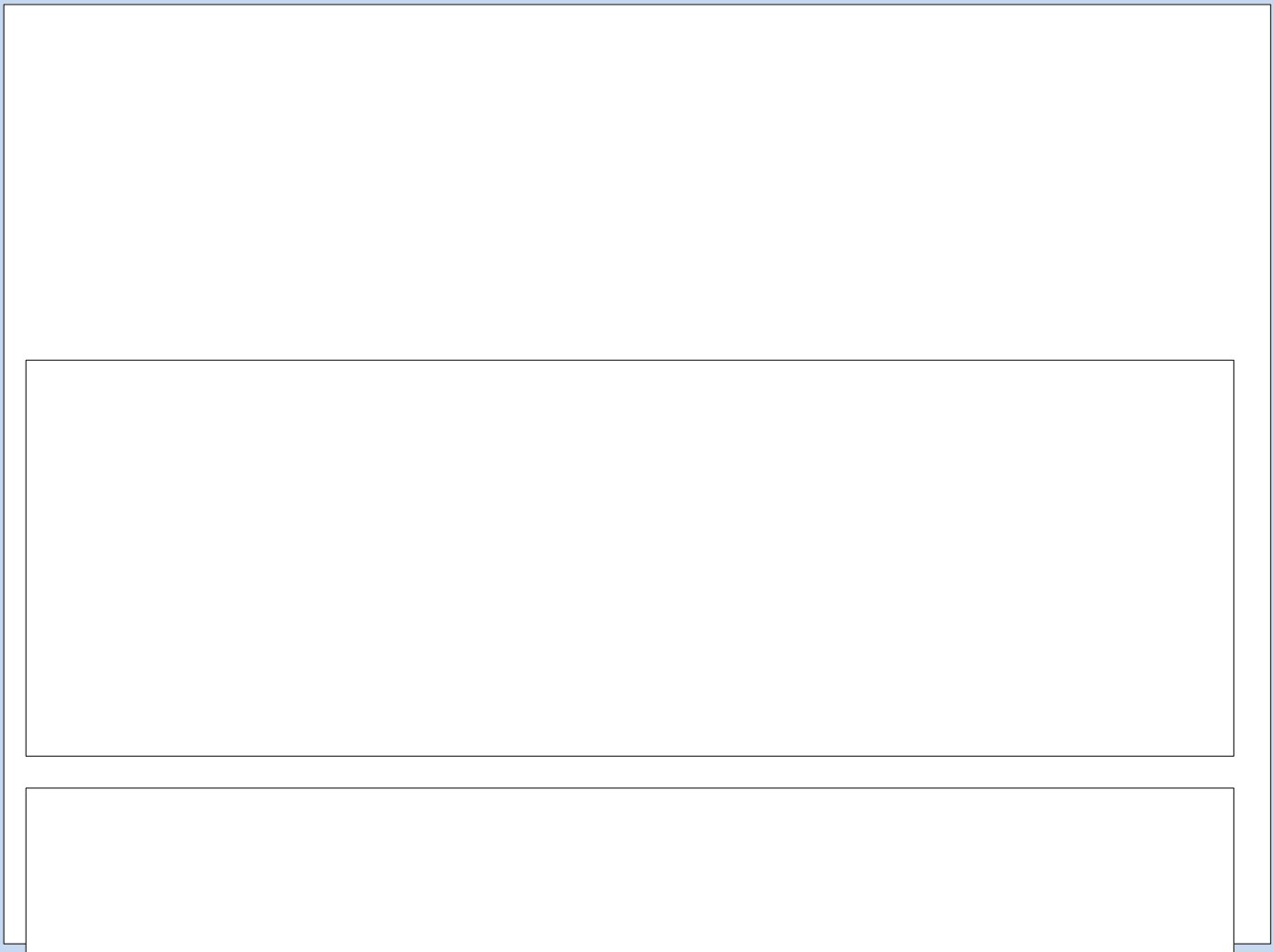
Resistivity conductive aupra conductivity impedance.z. 1/z,1/r resonance test instrument class value correct instrument model AC DC characteristics operational efficiency correct../

Entry assessment credit module completion.. value engineering

Outcome exhibition assessment process control technologies.

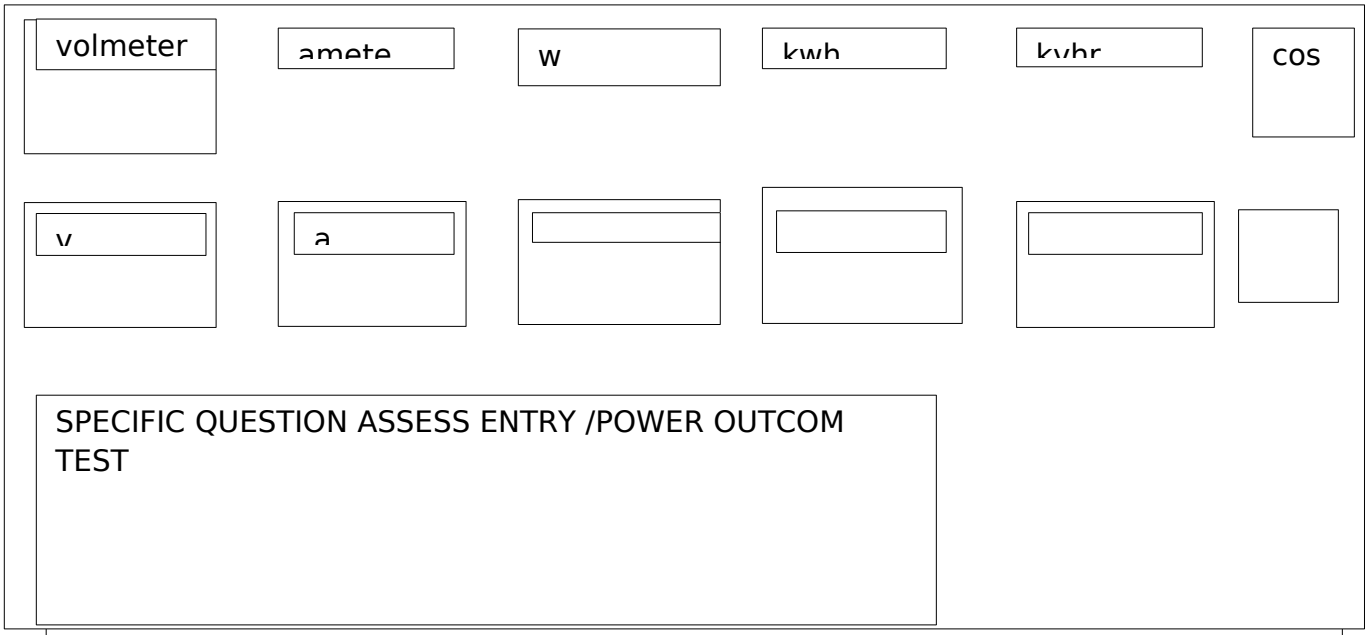
Instrument method measure screening outcome compulsory.component engineering electrical subject meet award original meet certificate registered extra circulum .

Operational task module entry criteria ward . transcript.. operational,



field magnetic flux meter light ..cell densimeyer checking..

Power factor maximum demand check .




| Unity design Calibration | A | V | W | KWH | KVARH | COS | OHM | UF | |
|---|---|---|---|---|---|---|---|---|---|
| CRADS ERROR MEANS | | | | | | | | | |
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minimum maximum value RMS  value nominal maximum circuit breaker way .Relay delay timer fuse maximum value rating trading db box maximum value..inom.imax switch circuit way .bulb lighting trade minimum cost value . metering cost value.. installation specifications

material trade power supply.minim.balance equilibrium circuit, ligne transformation value trade motor load AC DC current

value current.line 1,2,3.  Compliance safety security trade required operational miniu time operational network.prevention health first aid, components

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| **VALUE** | | | | | **R** | | | | |
| **NOMINAL, MIN Max Rmx avg** | | | | | | | | | |
| **Unity /m/ squar** | | | | | | | | | |
| **switc** | | | | | | | | | |
| **cable** | | | | | | | | | |
| **bulb** | | | | | | | | | |
| **tfo** | | | | | | | | | |
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SPECIFIC QUESTION answer / ASSESS ENTRY /POWER OUTCOM TEST correct

**3.tools assessment.** ,

| A | V | W | KWH | KVARH | COS |
|---|---|---|---|---|---|

| TEST | A | V | W | KWH | KVARH | COS | NEFF | TORQU | |
|---|---|---|---|---|---|---|---|---|---|
| VALU<br>NOMINA<br>MINIAL<br>SHORT<br>CIRCUIT<br>MAX<br>AVER<br>RMS | | | | | | | | | |
| UNITY | | | | | | | | | |
| AC<br>DC<br>CURENT<br>RELAIS<br>SWITC<br>CONTACTOR | | | | | | | | | |
| MOTOR<br>DC<br>AC | | | | | | | | | |

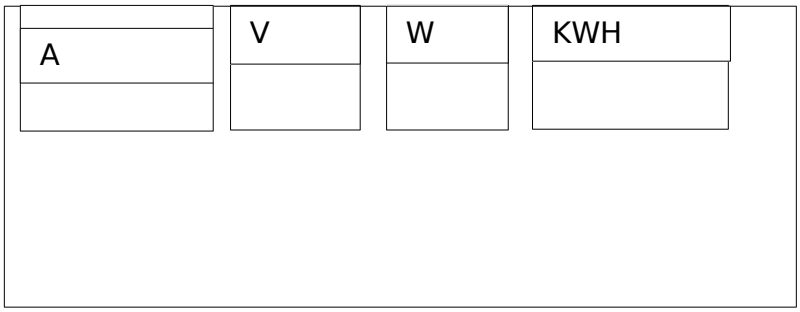
test operational transmission overall. Overload system transmission generation plant power test ,insulation test safety security

Inspection circuit breaker circuit gear .. inspection  transmission insulator support  network test arena radial  test cabling distance effect network.

Control  dispatch distribution system distribution load,

Fundamental system control . Low

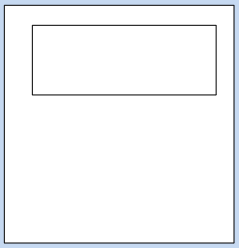
Line current phase curent



evaluation characteristics specific.soldering resistor capacitor active passive elements manufacture test criteria..test transistor phototransistor circuit

transistor value load efficiency.tyristor disc triac silicon integration circuit  operational transistor test multimeter amperage

voltage bias relever.. Kirchoff low,step . detection transducer  motor DC AC magnetic measure . oscilloscope digital PC test value alternative.. regulatory test ..logic diagram register process electronic key lock timer summer test  ,.



| TEST VALUE NOMIN MIN | A | V | W | KWH | KVAR H | | | | |
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| UNITY | | | | | | | | | |
| VCO/ICO/RCO SHORT CIRCUIT LOOP DIOD, TANSITR,TY RIST, | | | | | | | | | |
| TEST CIRCUIT LOOP | | | | | | | | | |
| VHF HF RF | | | | | | | | | |
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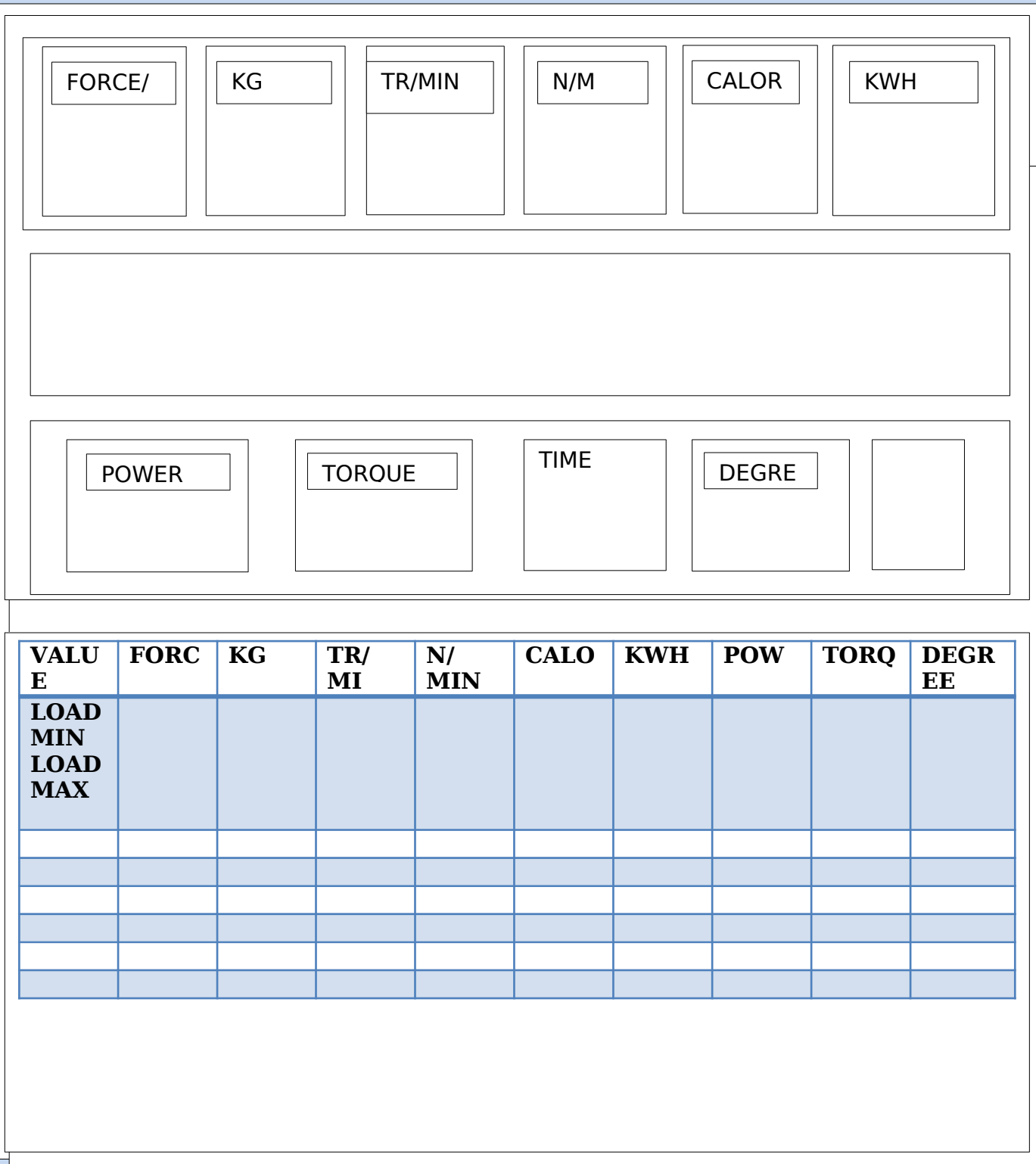
Engineering science  static analyse specific load experimental control  kinematic level doped velocity distance initial..test odometer calibration bank test panel car..power test material strength. Momentum test level turning test dynamometric  key ..

Fulcrum pulled test pandil .test rather . electricity low test electro test..heater colorimetric test specific  test break energy kinetic friction . Min max load

Test hydraulic ..pressosta thermometer. Conductivity heater test




| VALUE | FORC | KG | TR/MI | N/MIN | CALO | KWH | POW | TORQ | DEGREE |
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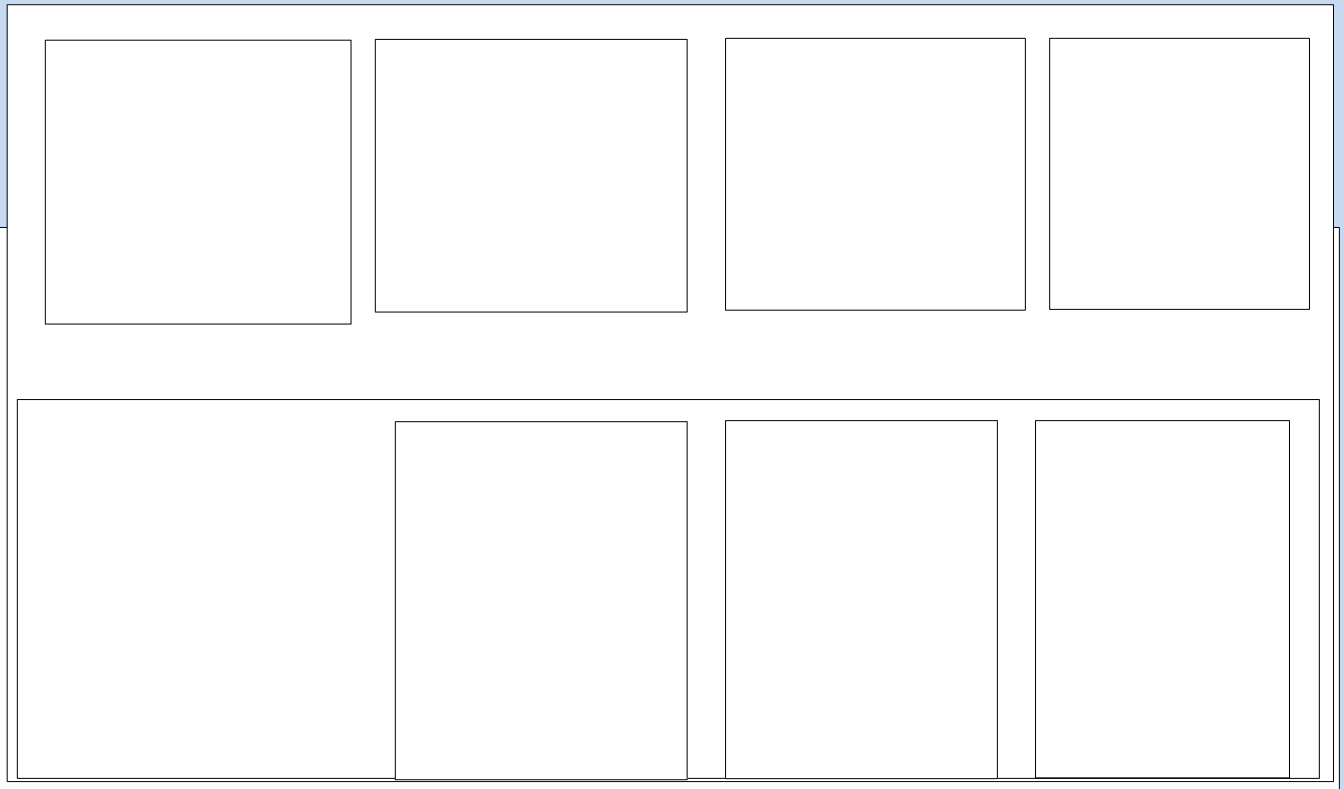

| | ALGEBRAIC | RIGONO | GEOMETRY | MENSRATION | | | | | |
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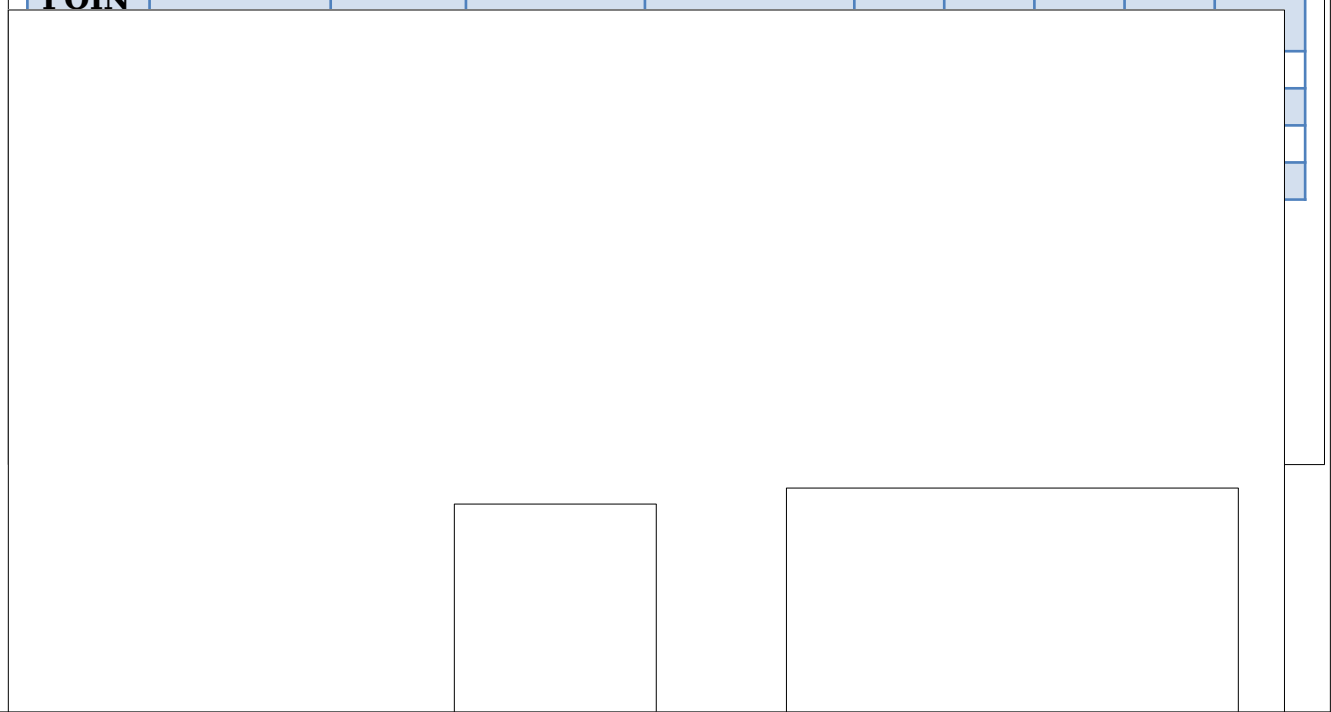

...

**Faculty: engineering electrical**

**Moderator:**

**Assessor :**

**STUDENT NAME : TSHINGOMBE TSHITADI**

**ID NUMBER CERTIFICATE :**

**ID NUMBER AWARD :**

**ID DIPLOMAT NUMBER : ..Q**

**TEST 1 :MATHEMATIC / FACULTY ENGINEERING : ELECTRICAL**

**PREPARATORY PHASE AND SELECTED ORIENTATION : ASSESSMENT N4/ N5 / N6**

- **CERTIFICATE : PREPARATORY / DIPLOMAT CRITERIA CONTINUING SUPLEMENTAIRY**

**TIME 3 HOUR S/**

**SUBJECT : ASSESSMENT , MODERATOR/ POL**

- EXPLAIN: $2a^2+3b^2=4c^2$ $A=\pi r^2$ 10 — 10 MARK AWARD
- DISCUSS: $\log_2 8+\log_4 16=\log_5 50$ — 10 MARK
- EXPLAIN: $\lim_{X-2}\frac{2X+4}{1X+4}$ , $\lim_{N\to 2}\left(1+\frac{1}{4}\right)^n$ — 10 MARK
- CALCULATE THE VALUE OF : $\begin{matrix}1&0&0\\0&1&0\\0&0&1\end{matrix}=DETERMINANT\,NUMBER$ — 10 MARK
- LIST 4: METHODE IDENTITY $\tan^{-1}90-\cos^{-1}45=\tan^{-1}45$ — 10MARK

- STATEMENT ARE TRUE OR FALS $\frac{-b\pm\sqrt{b^2-4ac}}{2a},=\sqrt{a^2+b^2}$ PROOF 10 MARK
- CALCULATE THE VALUE OF $\int \frac{\Delta y}{\Delta x}+¿\frac{dy}{dx}¿$ , X=3, Y=4 EQUATION 10 MARK
- CALCULATE : $\int_{-2}^{2}\frac{3X+9}{3X+6}$ ,FIND 10MARK
- DRAWING AND EXPLAIN $\frac{\Delta y}{\Delta x}, Y=MX+C, \frac{dy}{dx}$ 10 MARK
- DESIGN ANALYSE INVESTIGATE : $\begin{matrix}1&0&0\\0&1&0\\0&0&1\end{matrix}, \max_{0\le x\le 1} xe^{-x^2}, \begin{matrix}1&¿\\1&¿1\end{matrix}$ 10 MARK
-

**EXAM : MATHEMATIC**

**PREPARATORY PHASE AND SELECTED ORIENTATION : N4/N5/N6**

- **CERTIFICATE : PREPARATORY / DIPLOMAT CRITERIA**

**TIME 3 HOUR S/**

**SUBJECT :**

- EXPLAIN: $2a^2+3b^2=4c^2 \qquad A=\pi r^2 10$ 10 MARK AWARD
- DISCUSS: $\log_2 8+\log_4 16=\log_5 50$ 10 MARK
- EXPLAIN: $\lim_{X-2} \frac{2X+4}{1X+4}$ , $\lim_{N\to 2}\left(1+\frac{1}{4}\right)^n$ 10 MARK
- CALCULATE THE VALUE OF : $\begin{matrix}1 & 0 & 0\\ 0 & 1 & 0\\ 0 & 0 & 1\end{matrix}=DETERMINANT\,NUMBER$ 10 MARK
- LIST 4: METHODE IDENTITY $\tan^{-1}90-\cos^{-1}45=\tan^{-1}45$ 10MARK
- STATEMENT ARE TRUE OR FALS $\frac{-b\pm\sqrt{b^2-4ac}}{2a},=\sqrt{a^2+b^2}$ PROOF 10 MARK
- CALCULATE THE VALUE OF $\int \frac{\Delta y}{\Delta x}+¿\frac{dy}{dx}¿$ , X=3, Y=4 EQUATION 10 MARK
- CALCULATE : $\int_{-2}^{2}\frac{3X+9}{3X+6}$ ,FIND 10MARK
- DRAWING AND EXPLAIN $\frac{\Delta y}{\Delta x}, Y=MX+C, \frac{dy}{dx}$ 10 MARK
- DESIGN ANALYSE INVESTIGATE : $\begin{matrix}1 & 0 & 0\\ 0 & 1 & 0\\ 0 & 0 & 1\end{matrix}, \max_{0\le x\le 1} xe^{-x^2}, \begin{matrix}1 & ¿\\ 1 & ¿1\end{matrix}$ 10 MARK

$$\int \frac{3x+4}{9+4x}dx$$

**Weighting:The following weights are consequently awarded to each category**

**CERTIFICATE AND DIPLOMAT ENGINEERING ELECTRICAL**

| Knowledge and Understanding | APPLYING | ANALYSE SYNTHESIS EVALUATION | INVESTIGATION DISCOVERY/ DESIGN / ASS POL | TOTAL CRITERIA CLOSE |
|---|---|---|---|---|
| 3--40 | 30-40 | 20-25 | | |
| | | | | |
| | | | 40 ,60 | 10 POINT SCORE |
| REQUIRED TASK OPERATION | | | | |
| MATHEMATIC<br><br>ELECTROTECH<br><br>POWER MACHINE<br><br>ENGINEERING SCIENCE | | | | |
| | | | | |
| | | | | |

**STUDENT NAME : TSHINGOMBE TSHITADI**

**ID NUMBER :**

**ID DIPLOMAT NUMBER : ..Q**

**SHEET MARK SUBMISSION EXPLANATION EXAM**

| **MODULE /SUBJECT ELECTRICAL ENGINERING** | **WEIGHTING** | **OUTCOM CRITERIA CREDIT CLOSE AWARD SCORE FINAL /QUALIFY** |
|---|---|---|
| **MATHEMATIC**<br><br>**1.**<br>**2.**<br>**3.**<br>**4.**<br>**5.**<br>**6.**<br>**7**<br>**.8** | **100MARK** | **MIN / MAX 100MARK** |
| **ELECTROTECHNICAL** | 100MARK | |
| **POWER MACHINE** | 100MARK | |
| **ENGINEERING SCIENCE** | 100MARK | |
| **ELECTRICAL ENGINEERING DIPLOMA / STATEMENT STATEMENT** | 400MARK / | 400 MARK |
| **RATING** | | |
| | | |

SCHEDULE CASE REGISTRAR ATTATNDANCE RECORD SHEET AMANDEMENT TEXTBOOK WEEK COMPLETED COVERY , INVIGILATOR, AMANDMENT COPYRITH DARLO. / N1-N3////N4-

N6

| NAME SURNAME | WEEK /PRESENT ABSENT | ID NUMBE, TEXT BOOK NUMBER ISBN | CELL PHONE /TIME/IN OUT | SIGN |
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# certificate: REGOGNISE SCHOOL FOLLOW ING COURSE : LEARNING ASSESSMENT MODERATOR

Booking mark:

CERTIFICATE: STATEMENT

That certify and award recognize with successfully completed:

Subject: engineering electrical

Subject: learner assessment and moderator engineering, police

Statement field qualify: examination assessment completed

COLLEGE AND UNIVERSITY WORK SCHOOL:

NAME:

SURNAME:

ID NUMBER:

LEVEL QUALIFIES:

Merited excellence appreciation: award certificate

Signature: DAY
BY MANAGER ASSESSOR AND MODERATOR teacher assessor.

Officer assessor

DIPLOMAT; statement award

That diplomat and award recognize with successfully completed:

Subject: engineering electrical

Subject: learner assessment and moderator engineering police

COLLEGE AND UNIVERSITY WORK SCHOOL:

NAME:

SURNAME:

ID NUMBER study and work:

LEVEL QUALIFIES:

Merited excellence appreciation:

Signature: DAY
BY MANAGER ASSESSOR AND MODERATOR: teacher assessor.

Officer assessor:

COLLEGE AND UNIVERSITY WORK SCHOOL: student badge accreditation: ass /

NAME:

SURNAME:

ID NUMBER study and work:

LEVEL QUALIFIES:

Credit:

Enrolment :

**PRACTICAL –ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING ---------- POLICE ENGINEERING , ENGINEERING ELECTRICAL - PRACTICAL WORKSHOP AND LABORATOIR PROJECTION ENGINEERING INVESTIGATE CONDUCT, DETECTION TRAFFIC VEHICLE PATROL --------ASSESSMENT STATIONNAIRY WIRING TABLE DISCOVERY FAULT FIND PROTECTION DEVICE INSTALL RULES SAFETY ---------- ELECTRICAL WIRE ,logic system, control system,,,,electrotechnologie, mechatronics, n1,n2,n3 ,n4,n5,n6**

**RESEARCH DRAWING WIRE ELECTRICAL CIRCUIT CONNECTION TEST .**

**COLLEGE TRADING PRACTICAL MAKING THINGS.**

**COLLEGE INDUSTRIEL PRACTICAL ENGINERING ,,TEST**

**EXAMINATION EVALUATION LIBRARY . DISCOVERY**

**Author submission tshingombe tshitadi: student**

**Learner teacher and educatory: Connie**

**Policy assessment peace college and africat institute police : Mr Jackson**

**Security and safety st peace college Mr. Jackson**

**fiston tshingombe** **Sun, Mar 13, 11:18 AM (6 days ago)**

**---------- Forwarded message --------- From: fiston tshingombe <tshingombe520@gmail.com> Date: Sat, Mar 12, 2022 at 12:10 PM Subject: Fwd: Delivery Status Notif**

**foreigninstitutions** **Fri, Mar 18, 11:51 AM (23 hours ago)**

**to**
**me**

**Dear tshingombe tshitadi fiston**

**The purpose of this foreign institution's enquiry service is to give some direction regarding accredited and non-accredited foreign institutions.**

**Please contact verifications@saqa.org.za for information pertaining to the accreditation status of South African institutions and their qualifications.**

**Kind regards**

**Directorate Foreign Qualifications Evaluation and Advisory Services**

**SAQA**

**The National Qualifications Framework (NQF) Act 67 of 2008 mandates SAQA to provide a foreign qualifications evaluation and advisory service, which it does in accordance with the Policy and Criteria for Evaluating Foreign Qualifications within the South African NQF, as amended (March 2017). Section 29(a) of the Policy and Criteria stipulates the requirements that a foreign awarding institution must meet for its qualifications to be recognised.**

**From: fiston tshingombe <tshingombe520@gmail.com>**
**Sent: Saturday, 12 March 2022 10:51**
**To: foreigninstitutions <foreigninstitutions@saqa.co.za>**
**Subject: Re: Delivery Status Notification (Failure)**

**Thank you for your assistance.**

**foreigninstitutions** **Mar 11, 2022, 10:10 AM (1 day ago)**

**to**
**me**
**Dear fiston tshingombe**

**Dear fiston tshingombe**

**We are unable to trace your original request.**

**Please log your enquiry on the SAQA website at www.saqa.org.za (go to Services, Evaluation of Foreign Qualifications, Check the status of Foreign Institutions). Then follow the on-screen instructions.**

**Please note only one institution may be queried per submission. It is important that all information is fully and accurately entered to ensure the accuracy of SAQA's replies**

**Alternatively, kindly respond to this email and provide the following information:**

**Full Name :tshingombe tshitadi fiston**

**Email Address : tshingombe520@gmail.com**

**Country Enquiring From :dr congo**

**Purpose of Enquiry :high education departement examirregularity@dhet.gov.za ,n3,n4,n5,n6 enginering electrical**

**Institution Details : st peace college and africa institut police**

**Website Address : https://stpeacecollegeafricpolicinginstitute.business.site/**

**Institution Physical Address : 19 Harries St, Marshalltown, Johannesburg, 2107**

**Kind regards**

**Directorate Foreign Qualifications Evaluation and Advisory Services**

**SAQA**

**The National Qualifications Framework (NQF) Act 67 of 2008 mandates SAQA to provide a foreign qualifications evaluation and advisory service, which it does in accordance with the Policy and Criteria for Evaluating Foreign Qualifications within the South African NQF, as amended (March 2017). Section 29(a) of the Policy and Criteria stipulates the requirements that a foreign awarding institution must meet for its qualifications to be recognised.**

**ST PEACE COLLEGE :**

**GUIDELINE MARKING**

**CIEF MARK**

**LECTURE MODERATOR:**

**LECTURE ASSESSOR :**

**MANAGEMENT MARKER :**

| | | |
|---|---|---|
| **ST PEACE COLLEGE : AND AFRICAT INSTITU POLICE** | **CRITERIA MINIMUM SELECTOR YES OR NOT** | |
| **FACULTY ENGINEERING: DIPLOMAT AWARD CERTIFICATE ELECTRICAL /CIVIS /MECHANICS. POLICY . MATRIC N3 FINAL** | | |
| **STUDENT NAME : / TSHINGOMBE TSHITADI** | | |
| **LEVEL : NQF 1,2,3,4,5,6,7,8, QUALIFY AWARD DEGREE DIPLOMAT<br>LEVEL : N1,N2,N3,N4,N5,N6,N7,,<br>LEVEL : ASS1,2,3,4,4,4,4,** | | |
| **ID NUMBER :** | | |
| **SELF ASSESSEMENT<br>PEER ASSESSMENT<br>GROUP ASSESSEMENT** | | |
| **ATTANDACE TIME TABLE COURSE SUBJECT DAYS : STUDENT DUTY<br>SUBMISSION<br>COMMENT :** | | |
| | | |

**REGISTRAR PREVISION STUDENT DAYS AVERAGE :**

**RECORD INVIGILATOR PRINCIPAL DUTY GUIDLINE CONDUCT**

**REGULARITY SUBJECT PREVISION: SUBJECT 4,5**

**IRREGULATY SUBJECT PREVISION 4,5**

| -STUDENT NAME / AND LECTURE SELF LEARNER | ID NUMBER | CELLPHONE NUMBER | TIME ENTRY SUBJECT TIME OUTCOM SUBJECT:CRITERIO, OVER | SIGNATURE |
|---|---|---|---|---|
| TSHINGOMBE TSHITADI | | | | |
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**ATTANDACE TIME TABLE COURSE SUBJECT DAYS : STUDENT DUTY PREVISION , N5-N6/ REVISION N1,N2,N3,N4,N5,N5**

**TERM 6-7-8///REVISION TERM1,2,3,4,5,6**

**LECTURE ID NUMBER**

**SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE**

| TIME | M | T | W | F | T | S |
|---|---|---|---|---|---|---|
| 7H00 | INDUSTRIAL ELECTRONICS | ELECTROTECHNICS | MATHEMATICS | ENGINEERING SCIENCE ENG /PHYSIC | INFORMATION MANAG SYST | |
| 8H00 | | | | | -PROCESS INFO | |
| 9H00 | | | | | OPERATION POLICE - | |
| 10H00 | | | | | | |
| 11H00 | | | | | | |
| 12H00 | TRADE THEORY ELECTRIC | ELECTROTECHNOLO | ORIENTATION PLANING SUPERVIS | POWER MACHIN MECHANOTECHN | TRAFFIC ENGINERING BARGANIG | |
| 14H00 | LOGIC SYST | PROTECT DEVIS | | | | |

**ATTANDANCE TIME TABLE TEST TRADE COURSE SUBJECT**

**TEST PERIOD AWARD PRACTICE**

**SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE, CORE ,FUNDAMENTAL, SYSTEM**

**SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE**

| TIME | M | T | W | F | T | S |
|---|---|---|---|---|---|---|
| 7H00 | INDUSTRIAL ELECTRONICS | ELECTROTECHNICS | MATHEMATICS | ENGINEERING SCIENCE ENG /PHYSIC | INFORMATION MANAG SYST | TRAFFIC ENGINERING BARGANIG |
| 8H00 | | | | | -PROCESS INFO | POLICY PRICING |
| 9H00 | | | | | OPERATION POLICE - | LABOUR RELATION |
| 10H00 | | | | | | |
| 11H00 | | | | | | |
| 12H00 | TRADE THEORY ELECTRIC | ELECTROTECHNOLO | ORIENTATION PLANING SUPERVIS | POWER MACHIN MECHANOTECHN | TRAFFIC ENGINERING BARGANIG | MANAGEMENT SUPERVI PRODUCT PARALEGAL |
| 14H00 | LOGIC SYST | PROTECT DEVIS | | | | |

**ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT**

**TEST AWARD CERTIFICATE PRACTICE**

**SUBMISSION : PERIOD : PHASE LECTURE**

**SUBMISSION : PERIOD : PHASE LECTURE ELECTIVE**

| TIME | M | T | W | F | T | S |
|---|---|---|---|---|---|---|
| 7H00 | INDUSTRIAL ELECTRONICS | ELECTROTECHNICS | MATHEMATICS | ENGINEERING SCIENCE ENG /PHYSIC | INFORMATION MANAG SYST | |
| 8H00 | | | | | -PROCESS INFO | |
| 9H00 | | | | | OPERATION POLICE - | |
| 10H00 | | | | | | |
| 11H00 | | | | | | |
| 12H00 | TRADE THEORY ELECTRIC | ELECTROTECHNOLO | ORIENTATION PLANING | POWER MACHIN MECHANOTE | TRAFFIC ENGINERING | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | SUPERVIS | CHN | BARGANIG | |
| 14H00 | LOGIC SYST | PROTECT DEVIS | | | | |

A TTANDACE TIME TABLE EXAMINATION DAY EXTERNAL INTERNAL

INVIGILLATOR NAME:

PHASE LECTURE ELECTIVE

| TIME | M | T | W | F | T | S |
|---|---|---|---|---|---|---|
| 7H00 | INDUSTRIAL ELECTRONICS | ELECTROTECHNICS | MATHEMATICS | ENGINEERING SCIENCE ENG /PHYSIC | INFORMATION MANAG SYST | TRAFFIC ENGINERING BARGANIG |
| 8H00 | | | | | -PROCESS INFO | POLICY PRICING |
| 9H00 | | | | | OPERATION POLICE - | LABOUR RELATION |
| 10H00 | | | | | | |
| 11H00 | | | | | | |
| 12H00 | TRADE THEORY ELECTRICAL | ELECTROTECHNOLO | ORIENTATION PLANING SUPERVIS | POWER MACHIN MECHANOTECHN | TRAFFIC ENGINERING BARGANIG | MANAGEMENT SUPERVI PRODUCT PARALEGAL |
| 14H00 | LOGIC SYST/ | PROTECT DEVIS | CONTROL LOGI | ENG DRWAN /CIVIL | CARPENTER | |

MARKSHEET SCALE CHECK GUIDELINE

| MODULE SUBJECT | WEIGHT | SCALE | AVERAGE COVERAGE COMPLETED TEST EXAM |
|---|---|---|---|
| ELECTROTECHNICS 1-8 | | 100% | 200% |
| INDUSTRIAL ELECTRONICS 1-8 | | | |

| | | | |
|---|---|---|---|
| MATHEMATICS 1-8 | | | |
| ENGINEERING SCIENCE /1-8 PHYSIC | | | |
| POWER MACHINE | | | |
| | | | |
| | | | |

**ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT : ST PEACE COLLEGE / LEVEL . N1.N2.N3.N4.N5.N6,N6**

**TEST AWARD CERTIFICATE: PRACTICE / THEORY**

**TEST TRADE NAME CENTER INTERNAL EXTERNAL SUBMISSION SUBJECT :**

**ID CANDIDATE :**

**CENTER CANDIDAT**

**QUESTION ANSWERING BOOK MASTERING SKILL / AND DEVELOPMENT SYSTEM UNDER GO ..**

- **TEST TRADE REQUIRED**
  **SUBJECT : .....**
  **.....**
  **.....**
  **.....**
  **.....**
- **TEST TRADE TASK**
  **SUBJECT:..... .....**
  **.....**
  **.....**
  **.....**
- **TEST TRADE STEP SUBJET DOWN**
  **UP :.....**
  **.....**
  **.....**
- **TEST TRADE**
  **OPERATIONEL:.....**
  **.....**
  **.....**
- **TEST TRADE EVALUATION MAINTENANCE**
  **SUPLY:.....**
  **.....**
  **.....**
  **.....**
  **.....**

**SASSETA , MARK DIPLOMAT EXTERNAL SAFETY**

**SETA MSETA ACREDITATION FIELD ,**

**SAQA QUALIFIE , DIPLOMAT**

**.. EMPLOYMENT COMPAGNY LABOUR ENGINEERING T1,T2,T3,4,, DUTY CAREER OUTCOM EXHIBITE 3MONTH NTRY CAREER SUBJECT EXHIBITE SUBJCT CAREER ENGINEERING AND POLICING SASSETA , ADVISOR DECTECTIVE SAFETY 1,2,3 MANANGEMENT SAFETY SECURITY**

**ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT : ST PEACE COLLEGE / LEVEL . NQF 1,2,3,4,5,6,**

**TEST AWARD CERTIFICATE: PRACTICE / THEORY**

**TEST TRADE NAME CENTER INTERNAL EXTERNAL SUBMISSION SUBJECT :**

**ID CANDIDATE :**

**CENTER CANDIDAT**

**QUESTION ANSWERING BOOK MASTERING SKILL / AND DEVELOPMENT**

- **TEST TRADE REQUIRED**
  **SUBJECT : .....**
  **.....**
  **.....**
  **.....**
  **.....**
- **TEST TRADE TASK**
  **SUBJECT:..... .....**
  **.....**
  **.....**
  **.....**
- **TEST TRADE STEP SUBJET DOWN**
  **UP :.....**
  **.....**
  **.....**
- **TEST TRADE**
  **OPERATIONEL:.....**
  **.....**
  **.....**
- **TEST TRADE EVALUATION MAINTENANCE**
  **SUPLY:.....**
  **.....**
  **.....**
  **.....**

**……**

**MARK TOTAL 100:**

**ASSESSMENT TOOLS REQUIRED : TRADE**
**SCORE :……**

**POLICY WATH HAPPEND CLOS COOPORATION**

**MARK TOTAL 100: GRAND TOTAL SUBJECT OUTCOM EXHIBIT ENTRY CRITERION ASSESS**

**ASSESSMENT TOOLS REQUIRED : ENGINEERING COUNCIL**
**SCORE :……**

**ATTANDACE TIME TABLE ENGINEERING COUNCIL DAYS SUBJECT : ST PEACE COLLEGE / LEVEL .**

**TEST AWARD CERTIFICATE: PRACTICE / THEORY**

**TEST TRADE NAME CENTER INTERNAL EXTERNAL SUBMISSION SUBJECT :**

**ID CANDIDATE :**

**CENTER CANDIDAT**

**QUESTION ANSWERING BOOK ENGINEERING ANALYSE , PLANING, D ISCOVERING INVESTIGATE**

- **ENGINEERING COUNCIL REQUIRED**
  **SUBJECT : ……**
  **……**
  **……**
  **……**
  **……**
- **ENGINEERING COUNCIL TASK**
  **SUBJECT:…… ……**
  **……**
  **……**
  **……**
- **ENGINEERING COUNCIL STEP SUBJET DOWN**
  **UP :……**
  **……**
  **……**
- **ENGINEERING COUNCIL**
  **OPERATIONEL:……**

**……**
**……**

- **ENGINEERING COUNCIL EVALUATION MAINTENANCE SUPLY:……**
  **……**
  **……**
  **……**
  **……**

**POLICY WATH HAPPEND CLOS COOPORATION**

**MARK TOTAL 100: GRAND TOTAL SUBJECT OUTCOM EXHIBIT ENTRY CRITERION ASSESS**

**ASSESSMENT TOOLS REQUIRED : ENGINEERING COUNCIL**
**SCORE :……**

**.**NATIONAL EDUCATION POLICY

FORMAL TECHNICAL COLLEGE INSTRUCTIONAL
PROGRAMMES IN THE RSA
REPORT 191 (2001/08)
PART 2: N4 TO N6
ISBN: 0-7970-3939-2
DEPARTMENT OF EDUCATION
PRIVATE BAG X895
PRETORIA 0001

2
CURRICULUM DOCUMENTS
The synopses, syllabi/programmes for each instructional offering are available on request from the:
CHIEF DIRECTOR
CHIEF DIRECTORATE: NATIONAL EXAMINATIONS AND ASSESSMENT
DEPARTMENT OF EDUCATION

st peace college filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

**ST PEACE COLLEGE / AND A I P**

**FACULTY : ELECTRICAL ENGINEERING**

**Contents**

**Please read the following carefully, before completing or handing in any Diploma Logbook application:**

* **Application Guidelines for Diploma**

* **Checklist B (aspects of subjects covered)**

**The Diploma Logbook application consists of the following documents:**

1. **Logbook Cover Page**

2. **Application Letter: Diploma**

3. **Letter(s) from your employer (s)**

A letter on a letterhead from each employer which contains the following information:

1. Specific dates as proof of the period in which you gained work experience that is relevant to your specific field of training. Refer to “National Exam Instruction No 21 of 2000, point 1.10”. The proof of experience must be in two main subjects of your N6 qualification.
2. A Certificate of Service that confirms that the candidate worked for more than 18 months, and
3. A complete duty sheet (job description) stating what your duties were.

4. **DHET Application Info + Annexure A**

5. **Certified copy of ID/Passport**

6. **Summary: Academic Information (N4-N6 subjects)**

7. **Certified copies of N4 & N5 & N6**

8. **Certified copies of Statement of Results for your applicable 12 subjects**

**To receive required Diploma Application Documents**

To request required documentation, email:

Ms W Williams: wwilliams@cct.edu.za

or

Ms N Sonti: nsonti@cct.edu.za

# Please note

## 1. Subject condonations

Any Diploma for a N4-N6 programme will not be issued when the student obtained

two or more subject condonations.

A maximum of one condonation is allowed.

## 2. Relevant work experience

To apply for a **Diploma: engineering electrical,** please note that admin work experience or work experience in a government department (national, provincial or local government) does not qualify. For example, work experience with Public Works or

Gauteng jhb does not qualify.

## Summary: Academic Information (N4-N6 subjects)

Surname: tshingombe tshitadi
……

Full names: tshitadi fiston
……

ID nr: ……

Stud no.: 141-……-……

Cell nr: ……

St peace college electrical engineering

Letter: from appeal for

Student name tshingombe : tshitadi applying for diploma engineering electrical study 18 month over in

st peace college with saqa qualification 1ts 2th for final award degree diplomat examination n1,n2,n3,n4 for submission saqa qualification waiting for result of your diplomat for to council and release your result hand over certificate in the high department , entry submission examination annex assessment covering n4,n5,n6 internal examination college weight scal in equivalent saqa international graduate

value  thank u dear for  your take future .

**N4 level for the National N Diploma/ re applying saqa qualification originator rd congo  / 18 month  / 20 month  exam**

| Exam Centre Number | Name Instructional offering | Code of Instructional Offering | % obtained | Level | Date passed/ acknowledged |
|---|---|---|---|---|---|
| | | | | N4 | |
| | | | | N4 | |
| | | | | N4 | |
| | | | | N4 | |

**N5 level for the National N Diploma**

| Exam Centre Number | Name Instructional offering | Code of Instructional Offering | % obtained | Level | Date passed/ acknowledged |
|---|---|---|---|---|---|
| | | | | N5 | |
| | | | | N5 | |
| | | | | N5 | |
| | | | | N5 | |

**N6 level for the National N Diploma**

| Exam Centre Number | Name Instructional offering | Code of Instructional Offering | % obtained | Level | Date passed/ acknowledged |
|---|---|---|---|---|---|
| | | | | N5 | |
| | | | | N6 | |
| | | | | N6 | |
| | | | | N6 | |

**N1-n6 nql level for national diplomat saqa translate**

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| | | | | | |

Wed, Nov 3, 4:15 PM

**SAQA**
**<noreply@saqa.co.za>**

RECORD SHEET FOR TRIMESTER COURSES - ENGINEERING STUDIES

Electrical **ID: N1-N2,N3/N4/N5/N6 , N 2010002023812 / 2004007064381 /2011007434332**
**NATIONAL EXAMINATION**

**HIGHER. EDUCATION QUALIFICATION** : ID : EVALUATION SAQA APPLICATION 20191130002

**_____, 202001305040/ 201911130002**

| | | | | |
|---|---|---|---|---|
| **SUBJECT: .....** | | | | |
| **YEAR: .....semmester :.....**<br>**LECTURER:** | | | CASS MARK<br>TASKS | FINAL<br>ICASS<br>MARK |
| **ICASS TRIMESTER MARK SHEET** | | | TEST 1/EST 2 | |
| **No** | Student ID number | Student Surname & Initials | Convert the mark to weighted % | Total 100 % |
| **1** | | | 30% \| 70% | |
| **2** | | | | |
| **3** | | | | |
| **4** | | | | |
| **5** | | | | |
| **6** | | | | |
| **7** | | | | |
| **8** | | | | |
| **9** | | | | |
| **1110** | | | | |
| **12** | | | | |
| **13** | | | | |

**Re: 202001305040/ 201911130002**

Inbox

**SAQAMAIL1/ SAQA@saqa.co.za**

Sun, Aug 8, 2:13 PM

to me

Dear SAQA Verification clients,

Verification of South African National qualifications has re-opened after the initial COVID19 lock down and requests for verification can be submitted electronically to the following mailboxes:
• Requests for personal verification letters for an individual that can be legalised by DIRCO to be sent to : verificationsletter@saqa.org.za

• Request for verification by employers who signed a verification agreement with SAQA can be sent to : verifications@saqa.org.za

The verification service staff are working remotely and the SAQA building is, due to the pandemic restrictions, not accessible for collections or appointments for the public.
All contact during the pandemic period must be done by email and may take a little longer than usual. ( verifications@saqa.org.za )

Confirmation that the verification letter was issued will be done by sending an electronic copy of the letter to your email and then the original document can be collected from the SAQA agent at the following address.

Postnet Brooklyn,
Shop 4 Brooklyn Design Square,
309 Veale Street, New Muckleneuk,
Brooklyn, Pretoria 0181.

Postnet can be contacted at: 012- 460 1484 or saqaverificationsletter@postnet.co.za

You may make individual arrangements with Postnet to courier your document to the Department of International Relations and Cooperation (DIRCO) or to any other destination of your choice.
"The SAQA walk-in service will remain closed until further notice."

South African Qualifications Authority: Disclaimer and Confidentiality Note. This email, its attachments and any rights attaching hereto are, unless the context clearly indicates otherwise, the property of South African Qualifications Authority. It is confidential, private and intended for the addressee only. Should you not be the addressee and receive this email by mistake, kindly notify the sender, and delete this email immediately and do not disclose or use same in any manner whatsoever. Views and opinions expressed in this email are those of the sender unless clearly stated as those of South African Qualifications Authority. South African Qualifications Authority accepts no liability whatsoever for any loss or damages whatsoever and howsoever incurred, or suffered, resulting, or arising, from the use of this email or its attachments. South African Qualifications Authority does not warrant the integrity of this email nor that it is free of errors, viruses, interception or interference.

to TSHINGOMBE
520

Dear FISTON TSHINGOMBE TSHITADI,

APPLICATION FOR THE EVALUATION OF FOREIGN QUALIFICATIONS

The application for the evaluation of the foreign qualifications of the above-mentioned does not meet all SAQA's requirements stipulated in the application material

Below is what is outstanding on the application:

- An application form / invoice generated from the online application system, which bears a signature and date.
- Proof of payment of the amount reflected on the system generated application form / invoice, which bears the online submission number as reference.
- A consent form signed by the above-mentioned qualification holder.
- Valid proof of identification of the above-mentioned qualification holder.
- Chinese Pre-verification
- Final award certificate(s)
- Academic transcript(s)
- Original documents
- Sworn document(s) translation(s)

NB: Please log into your SAQA online profile and upload all the outstanding documents together with the documents that were previously submitted (Complete application pack) DO NOT SEND THESE VIA E-MAIL.

Kindly note that this should be completed within 48hrs.
**Email from SAQA**

Inbox

**SAQA**
**<noreply@saqa.co.za>**

Tue, Oct 12, 10:29 AM

to
TSHINGOMBE52
0

Dear FISTON TSHINGOMBE TSHITADI,

APPLICATION FOR THE EVALUATION OF FOREIGN QUALIFICATIONS

The application for the evaluation of the foreign qualifications of the above-mentioned does not meet all SAQA's requirements stipulated in the application material

Below is what is outstanding on the application:

- An application form / invoice generated from the online application system, which bears a signature and date.
- Proof of payment of the amount reflected on the system generated application form / invoice, which bears the online submission number as reference.
- A consent form signed by the above-mentioned qualification holder.
- Valid proof of identification of the above-mentioned qualification holder.
- Final award certificate(s)
- Academic transcript(s)

NB: Please log into your SAQA online profile and upload all the outstanding documents together with the documents that were previously submitted (Complete application pack) DO NOT SEND THESE VIA E-MAIL.

Kindly note that this should be completed within 48hrs.

ID : EVALUATION SAQA APPLICATION 20191130002

, **202001305040/ 201911130002**

**ID: N1-N2,N3/N4/N5/N6 , N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**HIGHER. EDUCATION QUALIFICATION**

**-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/2th**

**- NO PROVISIONAL CERTIFICATE OR UN OFFICIAL STATEMENTS**

**-CERTIFIE NO SUBMITE 1TH**

**-OFFICIAL STATEMENT FROM INSTITUT**

**- DIPLOMAT D'ETAT EXAM CERTIFIE / NO SUBMITED**

**-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**- REGISTRAR CERTIFICATE NO: COM 18269001: /**

**- ST PEACE COLLEGE LEVEL N ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:**

**-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE**

**- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT**

**-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%**

**-**

**Weighting: the following weights are consequently awarded to each category STUDENT**

**NAME: TSHINGOMBE TSHITADI**

**ID NUMBER:**

**ID DIPLOMAT NUMBER:**

_A National Accredited Technical Education Diploma (NATED) is basically an undergraduate qualification delivered under the auspices of the Quality Council for Trades and Occupations and the Department of Higher Education and Training. These certifications combine theory and practical work, and are registered on the National Qualifications Framework (NQF).”

Learners can embark on engineering studies ranging from N1 to N6 and on humanities courses from N4 to N6. The ultimate goal of the engineering NATED course is to study for an N6 Engineering Diploma, which takes approximately three years to complete, encompassing 18 months of theory and 18 months of practical experience.

“A National Diploma is completely different from a degree,” explains Ayobolu, “in that the National Diploma is divided into three levels, which are N4, N5 and N6. On completion of each level, learners are issued with a National Certificate.”

This type of qualification is aimed primarily at giving the learner the technical, theoretical, practical and workplace knowledge and skills required in their chosen occupational or vocational area. The courses are designed to enable learners to progressively obtain a qualification by completing the related N4, N5 and N6 courses in a particular vocational or occupational area, either piecemeal with breaks between the courses, or in one extended study period of a year or 18 months. The knowledge and skills learned are then applied in the workplace for an extended period before certification is awarded.

Ayobolu explains how NATED qualifications fit into the academic structure. “According to the South African Qualifications Authority (SAQA) NQF Act 67 of 2008, the framework consists of 10 levels that are divided into three bands. Levels 1 to 4 are the equivalent of Grades 9 to 12, as well as occupational certificates. Levels 5 to 8 equal higher certificates and diplomas; advanced certificates, degrees and advanced diplomas; honours degrees; postgraduate diplomas and occupational certificates. Levels 9 and 10 are master’s and doctorates, respectively.”

A NATED diploma – on NQF 6 – is one level below a bachelor’s degree. Bachelor’s degrees are NQF level 7 qualifications. It is, however, possible to get your degree, if you meet the applicable requirements, once you have a National Diploma. Once a learner has received their NATED diploma, they can apply to study a B-Tech degree, with the provisos that it has to be in a related field and all admission requirements are met.

There are several advantages to choosing to study towards a NATED diploma. Ayobolu explains: “A NATED diploma allows the learner to develop practical skills founded on the latest theory and principles, combined with an extended period of between 18 and 24 months of on-the-job experience.

“In addition, the N4, N5 and N6 modules can be completed as individual units of learning that develop specific knowledge and skills. While they form part of the complete qualification, they also equip the learners to be productively employed as second-level technicians.”

**The top six advantages of completing a NATED qualification are:**

- At each level a significant volume of learning outcomes will be achieved. This prepares learners for employment, participation in society and community, and access to higher levels of education and

training. Further education can lead to higher education studies.
- A certificate is awarded to all learners who successfully complete the requirements at Levels 1 to 5, and an advanced certificate is awarded at Level 6.
- This qualification offers both theoretical and practical learning with a strong workplace learning component.
- The qualification has been compared with qualifications and training offered in countries that have a strong vocational educational and training system designed for young adults, for those who enjoy upskilling themselves on an ongoing basis and for the updating of existing employees' skills levels.
- Colleges could be more affordable than higher education institutions. Students from disadvantaged backgrounds who are willing to learn could receive financial aid from colleges. The colleges also have a variety of programmes and services, including student support centres.
- Learners are able to study a diploma part time, especially at private institutions and technical colleges. This means that while doing a diploma, the learner can get a part-time job to help pay for tuition fees.

Learners who have completed a NATED diploma will be able to work in a number of specialised positions within their chosen field. They should be aware, however, that certain higher-level positions typically require a degree. The advantage of having a NATED diploma is that the learner will already have a lot of practical experience that they can apply in the workplace. For example, an engineering NATED diploma will allow the learner to perform a wide variety of jobs, such as electrical work or working as a diesel mechanic.

Ayobolu  says: "Whether it's a learner wanting to follow a more technical career path or an employee wanting to update their skills and earn a formal qualification, the way that NATED courses are structured means that they're accessible to everyone. They're also an option for those who simply can't afford a university degree. With unemployment at an all-time high, as well as huge demand for technical skills, these types of qualifications also empower people to eventually start their own small business."

Students can get more information on technical diplomas at CTU Training

## our enquiry [ ref:_00D205o40._5004JYEzA3:ref ]

**Courses Students to CX** <student.support@reedonline.co.uk> Fri, Dec 3, 2021 at 3:58 PM

To: "tshingombe520@gmail.com" <tshingombe520@gmail.com>

Good afternoon,

Thank you for your message.

Please could you confirm what it is you are still interested in?

Thank you
Keziah

---------- Original Message ----------
From: fiston tshingombe [tshingombe520@gmail.com]
Sent: 03/12/2021 13:52
To: student.support@reedonline.co.uk
Subject: Re: Your enquiry [ ]

Yes, I am still interested.

On Fri, 03 Dec 2021, 13:30 Student Support, <
student.support@reedonline.co.uk> wrote:

> Dear Tshingombe,
>
> Thank you for your message.
>
>
> Please could you tell me how I can assist you further with your enquiry?
>
> I look forward to hearing from you.
>
>
> Yours sincerely,
> Keziah
>
>
>
> The UK's #1 job site.
>
> It's time to Love Mondays » <http://www.reed.co.uk/lovemondays>
> *Your Enquiry*
>
> Topic: A course you've purchased/enquired about
> Subtopic: I want to get in touch with a provider
>
> Message:
>
> QUALIFY
>
>
>
>
>
> Reed Online Ltd is a company registered in England and Wales. Company

ID : EVALUATION SAQA APPLICATION 20191130002

_____, **202001305040/ 201911130002**

**ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332**

| | |
|---|---|
| DESIGN ANALYSE REPORT SHEET ATTANDANCE REGULARITY | MEET YES/ NOT CHECKLIST |

**50508079 NATIONAL CERTIFICATE: N5: ENGINEERING**
**STUDIES**
**Date of implementation: January 1995**
**Phasing out date:**
**Minimum formal time in years: 0,33**
**nimum formal time in years: 0,33**
**CODE INSTRUCTIONAL OFFERING CREDITS FIELD**
**02050015 Quantity Surveying N5 0,083 12**
**04090045 Building Administration N5 0,083 12**
**04110515 Supervisory Management N5 0,083 6**
**06040045 Computer Principles N5 0,083 10**
**08010015 Missiles N5 0,083 6**
**08010045 Radar Systems N5 0,083 6**
**08010075 Radar Technology N5 0,083 6**
**08030005 Internal Combustion Engines N5 0,083 6**
**08050015 Chemical Plant Operation N5 0,083 6**
**08060015 Building and Structural Construction N5 0,083 12**
**08060045 Building and Structural Surveying N4 0,083 12**
**08060065 Strength of Materials and Structures N5 0,083 6**
**08080085 Electro-Technics N5 0,083 6**
**08080115 Fault Finding and Protective Devices N5 0,083 6**
**08080175 Industrial Electronics N5 0,083 6**
**08080205 Industrial Instruments N5 0,083 6**
**08080235 Communication Electronics N5 0,083 6**
**08080295 Logic Systems N5 0,083 6**
**08080365 Digital Electronics N5 0,083 6**
**08080435 Television Techniques N5 0,083 6**
**08080555 Aviation Electronics N5 0,083 6**
**08090075 Mechanical Drawing and Design N5 0,083 6**
**08140015 Industrial Affairs N5 0,083 6**
**08140055 Production and Quality Control N5 0,083 6**
**08190015 Refrigeration, Air Conditioning and Ventilation**
**N5**
**0,083 6**
**08190035 Power Machines N5 0,083 6**
**08190205 Fluid Mechanics N5 0,083 6**
**08190225 Mechano-Technics N5 0,083 6**
**08250015 Photo Technology N5 0,083 6**
**110022125 Paper Making N5 0,083 6**
**11022155 Pulp Making N5 0,083 6**
**15040015 Chemistry N5 0,083 10**
**15070115 Engineering Physics N5 0,083 6**
**16030175 Mathematics N5 0,083 10**
**Building Draughting 0,083 12**
**06010035 Computer-Aided Draughting 0,083 12**
**08080625 Electrical Draughting 0,083 6**
**08090184 Mechanical and Drawing-Office Orientation 0,083 10**
**08090194 General Draughting 0,083 6**
**08090214 Pictorial Draughting 0,083 6**
**08090225 Structural Steel Detailing 0,083 6**
**08090235 Technical Illustration 0,083 6**
**08090244 Mechanical Draughting**
**Date of implementation: January 1995**
**Phasing out date:**
**Minimum formal time in years: 0,50**
**CODE INSTRUCTIONAL OFFERING CREDITS FIELD**
**04090304 Entrepreneurship and Business Management N4 0,125 3**
**051440225 Day Care Communication N5 0,125**

FORMAL TECHNICAL COLLEGE INSTRUCTIONAL PROGRAMMES IN THE RSA
REPORT 191 (2001/08)
PART 2: N4 TO N6
ISBN: 0-7970-3939-2
DEPARTMENT OF EDUCATION
PRIVATE BAG X895
PRETORIA 0001

2
CURRICULUM DOCUMENTS
The synopses, syllabi/programmes for each instructional offering are available on request from the:
CHIEF DIRECTOR
CHIEF DIRECTORATE: NATIONAL EXAMINATIONS AND ASSESSMENT
DEPARTMENT OF EDUCATION

ection 3(4)(l) of the National Education Policy Act, 1996 (No. 27 of 1996) makes provision for the determination of national education policy regarding curriculum frameworks, core syllabuses and education programmes, learning standards, examinations and the certification of qualifications, subject to the provisions of any law establishing a national qualifications framework or a certifying or accrediting body.
The policy document, Formal technical college instructional programmes in the RSA, Report 191 (2001/08), contains the programme requirements for current technical college education in the Republic of South Africa. The Report serves as a manual and is an educational policy document, which lists all instructional programmes approved by the Minister of Education in accordance with the National Education Policy Act 1996, (Act No. 27 of 1996).
The policy document, Norms and standards for instructional programmes and the examination and certification thereof in technical college education, Report 190 (2000/03) is a separate policy document containing broad, general provisions with regard to technical college education, pertaining to norms and standards for instructional programmes, examinations and certification. More detailed particulars regarding the various instructional programmes offered by technical colleges are contained in the policy document, Formal technical college instructional programmes in the RSA, Report 2001 (2001/08).
The policy document, Formal technical college instructional programmes in the RSA, Report 191 (2001/08) has at this stage only a maintenance function and will be gradually replaced by a new Further Education and Training (FET) policy document which will accommodate the national norms and standards for FET, as stipulated in the Education White Paper 4: A programme for the transformation of Further Education and Training, August 1998 and the Further Education and Training Act, 1998 (Act No. 98 of 1998).
5
This report replaces all the previous NATED 02-190, NATED 02-191 and 190 and 191

| | |
|---|---|
| **11**<br>**07080115 Educare Didactics: Theory and Practical N5 0,125 5**<br>**20060105 Educational Psychology N5 0,125**<br>**REMARKS**<br>**1. ADMISSION REQUIREMENTS**<br>**1.1 An appropriate National Certificate: N4 Engineering Studies; or an equivalent qualification, taking into account pre-requisites for instructional offerings where applicable.**<br>**2. DURATION**<br>**Full-time: One trimester.**<br>**3. PROGRAMME REQUIREMENTS**<br>**3.1 At least three instructional offerings are required for the issuing of the certificate, provided that:**<br>**3.1.1 The following instructional offerings may not be taken together, except if they are chosen as additional instructional offerings:**<br>**3.1.1.1**<br>**• Radar Systems N5; and**<br>**• Radar Technology N5;**<br>**3.1.1.2**<br>**• Internal Combustion Engines N5; and**<br>**• Power Machines N5;**<br>**3.1.1.3**<br>**• Digital Electronics N5; and**<br>**• Logic Systems N5.**<br>**3.1.2 Pre-requisites:**<br>**Engineering Science N4 for Engineering Physics N5.**<br>**credit value allocated**<br>**Trimester programmes 0,33;**<br>**• semester programmes 0,5; and**<br>**• year programmes 1,0**<br>**the total credit value** | Reports. Technical college students registering for the first time, must register for the instructional programmes and instructional offerings appearing in this document,<br>Formal technical college instructional programmes in the RSA, Report 191 (2001/08)<br>FOREIGN –<br>COMPILATION OF THIS REPORT<br>(1) The instructional programmes are listed numerically in terms of N-Certificates, Integrated Certificates, N-Diplomas and Non-National Certificates. It should be noted that the instructional programme details for all the National Intermediate Certificate and National Senior Certificate instructional programmes are incorporated in the corresponding National Certificate N2 and National Certificate N3 programmes |
| ENGINEERING ELECTRICAL ENTRY<br>**08080085 Electro-Technics N5 0,0808080115 Fault Finding and Protective Devices N5 0,083 6**<br>**08080175 Industrial Electronics N5 0,083 63 6**<br>**08080295 Logic Systems N5 0,083 6**<br>**16030175 Mathematics N5 0,083 10**<br>**15070115 Engineering Physics N5 0,083 6** | **OUTCOM** Phasing out date:<br>ID NUMBER<br>N-Diplomas and<br><br>Minimum formal time in years: 0,50<br><br>CODE INSTRUCTIONAL OFFERING CREDITS FIELD<br>FINAL AWARD DEGREE DIPLOMAT 1TH, 2TH,<br><br>ID : EVALUATION SAQA APPLICATION 20191130002<br><br>_____, **202001305040/ 201911130002**<br><br>**ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332** |
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| | |

# RESEARCH SAQA QUALIFICATION.

- Final award certificate(s)
- Academic transcript(s)
- Original documents
- Sworn document(s) translation(s)

FINAL AWARD DEGREE DIPLOMAT 1TH, 2TH,

CIRCULUM ASSESSMENT FRAMEWORK SAQA QUALIFICATION AUTHORITY

INSTITUT VERIFICATION QUALITY CONTROL ASSESSMENT SUMMATIVE, FORMATIVE, SUPLEMENTAIRY EXTRA TIME TABLE

# HIGH EDUCATION SAOUTH AFRICAT DEPARTMENT

CIRCULUM ASSEMENT : N4-N6

st peace college
filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR: MANAGER /PRICIPAL: CONIE

**ST PEACE COLLEGE / AND A I P**

**FACULTY : ELECTRICAL ENGINEERING**

ID : EVALUATION SAQA APPLICATION 20191130002

_____, **202001305040/ 201911130002**

**ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**HIGHER. EDUCATION QUALIFICATION**

**-FINAL AWARD (DEGREE / DIPLOMAT CERTIFICATE) SUBMITED 1STH/**

**- NO PROVISIONAL CERTIFICATE OR UNOFFICIAL STEMENTS**

**-CERTIFIE NO SUBMITE 1TH**

**-OFFICIAL STATEMENT FROM INSTITUT**

**- DIPLOMAT D'ETAT EXAM CERTIFIE / NO SUBMITED**

**-ID: N1-N2, N3/N4/N5/N6, N 2010002023812 / 2004007064381 /2011007434332 NATIONAL EXAMINATION**

**- REGISTRAR CERTIFICATE NO: COM 18269001: /**

**- ST PEACE COLLEGE LEVEL N 'ENGINEERING CERTIFICATE LEVEL 1,2,3,4, REGISTRAR CERTIFICATE NO: COM 18269001:**

**-FINAL DEGREE/ DIPLOMAT DEGRE SAQA N6 NQF 6/ NQF7 / NQF8 CONTINUE**

**- SAQA UNIVERSITY DEGREE 1, 2, 3, 4 NQF7/ NQF8 , SUPLEMENTARY PREPARATORY SELECTOR DIPLOMAT**

**-REGISTRAR FEES: FINAL EXAM DIPLOMAT N / SAQA 50%**

**-REGISTRAR FEES FINAL**

**ST PEACE COLLEGE / AND A I P**

**FACULT: ELECTRICAL ENGINEERING**

**TIME TABLE , / Study by tshingombe tshitadi fiston**

**learner: conies**

**Moderator facilitator instructor: sasseta, seta: security training safety, strategies**

**Trainer performance train training. Manage electronic system :, assessment**

**Learner: khruis /...**

**Faculty: engineering electrical**

MENTORING CAREER LEARNER : GUIDENCE ASSESSMENT POLICE SOCIAL PSYCHOLOGIE , INDUCTION LEARNER CONDUCT ASSESSMENT . MANAGEMENT PRINCIPAL OFFICER DUTY RESPONSABILITY LEARNER , STUDENT COLEGE SUBMISSION CAREER GUIDENCE QUALITY CONTROL MANAGEMENT ORIENTATION MANUEL , SYTEM

MANUEL FOLLOW, MANAGEMENT SYSTEM OPERATIONEL

PRESENT ORAL LEARNER ELECTRICAL ENGINEERING

SAINT PEACE COLLEGE : EXAM  DIPLOMAT

N4- N6  --

EXAMINATION  AWARD DEGRE DIPLOMAT  ENGINEERING , DIPLOMA

- ASSESSMENT  POLICE ,
- ASSESSMENT LABOUR PROCEDURE POLICE SKILL DEVLOPMENT  ARTISANT :
- ASSESSMENT  TRAINING PROCESS EDUCATION
- ASASSEMENT HEALTH  ENGINEERING  SCIECENCE

OHS 3/1/4/6 DEPARTMENT OF LABOUR OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 EXAMINATIONS FOR THE MECHANICAL AND ELECTRICAL ENGINEERS CERTIFICATES OF COMPETENCY (FACTORIES)

**NAME STUDENT RESEARCH: TSHINGOMBE TSHITADI**

**LEARNER TSHINGOMBE**

**-PERMIT WORK STUDY RESEARCH, EXAMINATOR NATIONAL AWARD CERTIFICATE DIPLOMAT**

**MODERATOR MARK**

**CHIEF MARKING GUIDELINE**

**COUNCIL EDUCATION**

**PERMIT WORK LEARNER QUALIFICATION AWARD DEGRE DIPLOMAT**

**PERMIT STUDIE ACADEMIC INSTITUTE RESEARCH PERMITCAREER VOCATIONEL BASIC ADVANCED FILING SYSTEM**

**MANAGEMENT PRINCIPAL**

**SUBMISSION LECTURE NOTE SELF ASSEMENT POE'S PEER ASSESSEMENT, GROUPE ASSEMMENT, SCOOTISH**

**Content page:**

**-topics**

**Abstral :** Overview: Statement national system examination and qualification system framework regulator overview knowledge application and finalise with system rural land reform council quality control process on high education system and universities system need energetically for work in the time system real and take most imaginary system energetically scientific discovery on the end of the day system

**1. Purpose:**

THE END OVER OF CONCILLIATION SYSTEM COMMMISIONING SYSTEM ARBITARL

Statement national load credit and accreditation booking and bookkeeping journal inventory delivery note claim academicals system need resold agreement minimal wage on framework system reform provisional

Site situation land reform geostrategic zone sartorial

Climatic legend system

**2. Topic 1. Circular research question rural development energetically**

**2.1 Frame work regulatory system provisional supply logistic land reform rural sector energetically system support ;**

Overview: Statement national system examination and qualification system framework regulator overview

2.2 System : case study report occurred sartorial programme site rural technical vocational support study frame work regulatory implementation mandatory system policy design case compliance existence fundamental support municipality country continental system development task unity qualification system vocation technical system implementation support electro energetically system support zone rural , management system information safety security system keep zone in fire rural electro energetically in fire energetically renewable . regulatory research analyse design framework implementation improvement subject, field engineering studied examination circular integration and system rural zone protection device case study structural energetically claim, zone rural land reform tenure extender supply ,

2.2. Case study electro energetically stability and static report occur zone safety survey civil geotechnical rural sartorial site skill administer communication stress health occupation system workplace skill goal target occurred system ob , delivery service multi sartorial rural electro energetically un stability system stress health skill score , constant annual report implementation system require land reform energetically bridge reform system . Evidence of the low value portfolio supply rural claim development system tom implantation antennae remanufacture system fundamental energetically, rezoning system support .

2.3 Case study electro energetically rural system trainee support , training support skill system learned management system induction learner new job , and old job system resource management human , investigate system electro energetically, system stability framework regulator legislation mandatory compulsory system safety zone prevention rural system review existence firm joint venture existence system implementation energetically . Stability manual occurred zone statistical security severity give impact financial required system rural resolution incorporation zone break down time table, allocation system minimise risk. System

2.4 Case study energetically problematical man dement: cost projection, review retrospect us, re projection cost estimation planning organisational industrial stature,

Production management system require review, rural, land reform view

Time table subject

Resource allocation value break down system

POWER SIZE WORKPLACE, CLASS ROOM STUDY TRAINING / REGULARITY IRRREGULARITY ATTANDANCE SUPLY ENERGETICAL,

| | X1 | X2 | X3 | X4 | X5 | X6 | X7 | X8 | |
|---|---|---|---|---|---|---|---|---|---|
| 1 y | | | | | | | | | |
| 2y | | | | | | | | | |
| 3y | | | | | | | | | |
| 4y | | | | | | | | | |
| 5y | | | | | | | | | |
| 6y | | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **7y**<br>**Sum**<br>**X+yi= 0 joint relation module subject argument Reason energetical**<br><br>**Square linear energetical compare**<br>**A+bi=0**<br>**X2+bi2+c=o**<br>**B2-4ac/2c ,**<br>$\frac{-b \pm \sqrt{b^2-4ac}}{2a}$<br>**Matrice Energetically /Det/**<br>**x1+y1+z1=0,,**<br>**x+y=o,,, (1)**<br>**x+y=0 (2) x-y=0**<br><br>**X2+y2+z3=0**<br><br>**X3+y3+z3=0**<br>$\begin{matrix} 1 & 0 & 0 \\ ¿0 & 1 & 0 \\ 0 & 0 & 1 \end{matrix}$<br>**Integral / limited continuite number nergetical**<br>**Lim x+y=0 f(x)**<br>**X**<br>**du/dv**<br>**Dx/dy**<br>**Dx/dy second**<br>**Log / ln**<br>**Dx/dy dy/dz**<br>**Inte/** $\int$ ❑.<br>**Relation equation energetical electrotech /**<br>**E1-E2=1R1I+2R2I+3R3I**<br>**E1-E3=1R1I+2R2I+2R2I**<br>**E=RI,, r=lo**<br>**Xl=Lw f , xc=2 f**<br>**Z=**$\sqrt{❑}$**R+lw**<br>**Z**$\sqrt{❑}$**=R+1/cw ,**<br>**p= vi**<br>**P=v.i cos**<br>**Vl=il, ave=**<br>**Rms =**<br>**Rp= 1/ 1/r+r1**<br>**Rs=r1+r2+r3**<br>**N= 2p/2**<br>**S=**<br>**C=qv /**<br>**Relaion energetical** | | | | | | | | | |

structure zone complex it zone site  mark design

Factor material construction / dielectrically  conductivity superconductivity , insulator, magnetic

Xydis= 0 joint relation  module subject argument

Reason energetically

Square  linear energetically compare

Abe=0

X2+bi2+c=o

B2-4ac/2c  , $\frac{-b \pm \sqrt{b^2-4ac}}{2a}$

Matrices

Energetically

/Det/ x1+y1+z1=0,,  x+y=o,,,  (1)  x+y=0  (2)  x-y=0

X2+y2+z3=0

X3+y3+z3=0

| | | |
|---|---|---|
| 1 | 0 | 0 |
| ¿0 | 1 | 0 |
| 0 | 0 | 1 |

Integral / limited continuite number nergetical

Lim x+y=0  f(x)

X

du/dv

Dx/dy

Dx/dy second

Log / ln

Dx/dy  dy/dz

Inte/$\int$ ❑.

Relation equation  energetical electrotech /

F=qa-qb.10/r2....fm=ma.mb.10  r2 final d electrostatic, electromagnetic, permutation

N2/n2=v1/v2=i1.i2  turn ration

E1-E2=1R1I+2R2I+3R3I

E1-E3=1R1I+2R2I+2R2I

E=RI,, r=lo

Xl=Lw f , xc=2 f

Z=$\sqrt{R+lw}$

Z$\sqrt{R+1/cw}$= , p= vi

P=v.i cos

Vl=il, ave=

Rms =

Rp= 1/ 1/r+r1

Rs=r1+r2+r3

N= 2p/2

V=E+rai...

Efficient / input power / output power

Loss system , induction system

C=qv /

Relaion energetical science engineering

Power =

v=u+at,, f=ma+mg

fu=F cos .mg

E=mc 2

Ek =1/2 mhg

E at=m.c.(t1+t2)

m.c=mc.(t1+t2)

‘p=f/s

Fxl=fxl

P=wxt

E=pxt

Relation imaginair/ real

X+yi=0.,$\frac{-b \pm \sqrt{b^2-4ac}}{2a}$

X=r

Y=ri

I=j$\sqrt{3}$.  Delta , start  vl,

V=v$\sqrt{3}$.

Vcc=  Icc. Rcc. Theveni , rt . northon

P=v.i.cos.t

Q=v.i.sint

Three phase  delta , star connection average ,

v=vsin.t.  rms=0.777 r.  Av=0.666.r/ form  /

P= v$\sqrt{3}$.i.sin.t  /v. j$\sqrt{3}$.  Si.t

Q= v$\sqrt{3}$..i .sin.t/ v. j$\sqrt{3}$.

S=v.i

E=p.t/

Energy  ave/ = period , energetical, instantaneously load energetical,

Vector energetical,

E=mct1.t2  coefficient expansion  material..

Pv/t=p1v2/tn  ,  mc.gz,  steam conservation heat loss,h, co

Factor symmetrical  rate admission balance system phase . vl1+vl2+vl3=0 more less

Defence factor  norm eic / call

Work , shift salary require  task week 7 days , 30 days  time work energetical  , over time , daily energetical  time operationel net operation weight operationel load  purchase .TERM

1,2,3,4  2 semester  air time  award  credit balance  stability , 36000 second, 4, module  24 module, 36 module  accumulator variable x1, y2  credit 10. 20 equivalent , occurred  air time power size zone  work done  , efficiency , matter balance blain  reject  indicator  perusals, poll saps  assessment  system management  accumulator , criteria clause , bidet  energetically submission

requirement clause month critter required admission rate value 45% 100% rate , means value energetically close criteria point score minimum physical energetically supply value career energetically entry outcome energetically criteria phase . National qualified framework design energetically supplementary energetically land , continue energetically land career outcome total examiner supply load % loss energetically transformer . redistribution system , scission system land criterion close system overload symmetrical system , management police implantation improvement indicator manufacture criminal rural energetically material criminal compliance energetically poling, delivery system management. Cost supply .

**WORK FIND FAULT SYMETRICAL INSPECTION LOAD**

K= factor week's kava/ kava .... Q =p/s factor symmetrical current load time

Variation did/dude/it time take week permissibility

Stability vector, conservation transformer , duration, ,,f1+f2+f3 vector scald

/ fulcrumf1-f2, f1xf2 metric tensile force stability stoic react stress communication skill admonish, ,l1,l2l3/3

6.2 System : case study report occurred sartorial programme site rural technical vocational support study frame work regulatory implementation mandatory system policy design case compliance existence fundamental support municipality country continental system development task unity qualification system vocation technical system implementation support electro energetically system support zone rural , management system information safety security system keep zone in fire rural electro energetically in fire energetically renewable . regulatory research analyse design framework implementation improvement subject, field engineering studied examination circular integration and system rural zone protection device case study structural energetically claim, zone rural land reform tenure extender supply ,

6.3 Case study electro energetic l stability and static report occur zone safety survey civil geotechnical rural sartorial site skill administer communication stress health occupation system workplace skill goal target occurred system ob , delivery service multi sartorial rural electro energetically un stability system stress health skill score , constant annual report implementation system require land reform energetically bridge reform system . Evidence of the low value portfolio supply rural claim development system tom implantation antennae remanufactures system fundamental energetically, rezoning system support .

6.4 Case study electro energetically rural system trainee support , training support skill system learned management system induction learner new job , and old job system resource management human , investigate system electro energetically, system stability framework regulator legislation mandatory compulsory system safety zone prevention rural system review existence firm joint venture existence system implementation energetically . Stability manual occurred zone statistical security severity give impact financial required system rural resolution incorporation zone break down time table, allocation system minimise risk . System

6.5 Case study energetically problematical man dement : cost projection , review retrospect us, re projection cost estimation planning organisational industrial stature,

Production management system require review , rural , land reform view

Time table subject

Resource allocation value break down system :

## TOPIC 7. RESEARCH METHODOLOGY

LAND REFORM PEEK AVERAGE PERIODIC ASSESSMENT ASSIGNMENT

Trading supply system zone load time table existence . Marker chief design extra time table period performance record system land reform zone system reform

FORMULATION

-EXPLANATION : HYPOTHESE : low evidence demonstration factor input and output system energetically stability framework time operational

Work violability time breakdown load

ENERGETICAL REAL TIME TABLE SUBJECT VALUE:

Abe=0 /////sum Ended=0 ,,4 module 24h/ 6h time table air time

X2+bi2+c=o

B2-4ac/2c ,$\frac{-b \pm \sqrt{b^2-4ac}}{2a}$

$\sum$ ENERGETICAL IMAGINAIRY SUBJECT VALUE ADDED CORRECT:

X

COMPLEXITY TIME TABLE SUBJECT VALUE VARIABLE:

Modulation argumentation supplementary field subject qualification, zone time value yeas light, quadric, , kinematical value engineering science , and potential generation energetically field feeder energetically consumer.

-Vibration system real and imaginary value time , stability concrete energetically value occurred --system over staking storing,

- Production management system application system management consumer

-Frequential sum series sequence variable

.- linear excretion qualified

- Crime framework investigates system design

-crime statistical analyse imaginary air time

- Rural structure generation and regeneration field zone

-system compensator.

-system emergence system balance load system

LOAD CENTRAL SYSTEM , POWER STAION GENERATIN FRAMEWORK REGULATORY RURAL DEVELOPMENT ENERGETICAL ELECTRO ENERGY STABLE, ,TRANSMISSION GRID SUB STATION SYSTEM PROTECTION DISCONECTOR SYSTEM CLAIM DISTRIBUTION SYSTEM , DISPATCHIN SYSTEM INSPECTION FAULT SYMETRICAL RATE LOAD SYSTEM DESIGN SUBJECT FRAMEWORK REGULATOR SAFETY IMPLEMENTATION GOVERMENT SYSTEM REQUIRED OPERATIONEL , DISTRIBUTION BOARD .

SUBJECT REQUIRED TRADE THEORY , ELECTRICAL, MATHEMATIC, ENGINEERING SCIENCE, , ELECTROTECHNICAL , ELECTROMECHANICAL SYSTEM MECHANOTECH ENGINEERING SCIENCE, BUILDING SCIENCE AND DRAWING, CHEMICAL ENGINEERING PLANT SUPERVISION MANAGEMENT DUTY, , PANEL SKILL WARING,

RESEARCH CAREER VOCATIONEL POWER MACHINE LOGIC SYSTEM DIGITAL ELECTRONIC, EDUCARE MAINTENANCE CARE INSPECTION SYSTEM , MODUL BARGANNG , PRICING POLICE, LABOUR ELATION

TOTAL CAREER FIEL OUTCOM ENTRY EXIT STAITISCAL REPORT ENEGETICAL RURAL,

Activity subject

| | **week** | **week** | **week** | **week** | **week** | **week** | **week** | **week** | |
|---|---|---|---|---|---|---|---|---|---|
| **Module Task Completed 8 module** | | | | | | | | | |
| **X1** | X2 | | | | | | | | Sum, |
| **Y1** | | | | | | | | | |
| **y.sum** | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**8. ADVANTAGE FIELD**

Care maintenance system , inspection fault system daily week policy

Projection cost economical modules subject implantation delivery

9. **DISVANTAGE FIELD**

system orientation criminal , community polio,, perusals analyse data system cad system orientation proactive, react, vim security, system protection database, detective vetting system , cannot improve , correct language grammatical error poll fill , design and

time table break down module criminal module following , compliance multi service, interdiction lithe private sector garment , resource land reform rural energetically, servo recommend, system functional operational ,opportunity , close bidden system ,reopen, no re employer system in system , induction resource management non assistance new member old house system re joint venture .

**10.SYNTHESE FIELD APPLICATION**

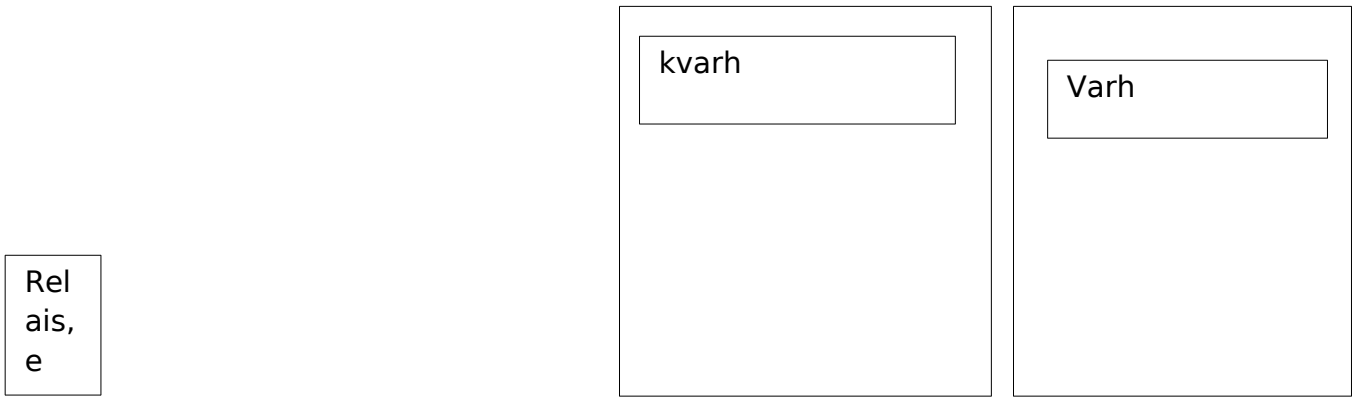
**SYSTEM ORIENTATION DESIGN COMMMUNITY MANAGEMENT SYSTEM DESIGN IN ORDER PROCESS**

PROGRAMATION DATA BASE STORAGE IN ORDER : Compliance project procreation in order design

spread sheet to inform criminal record database in policing visual base energetically system module subject assessing police in order to resolve information system management police for poling system problem , id process in order to compliance framework regulatory in order to communicate skill and administer skill in order to make a good condition programmer , energetically system in the time process , id

**10. DESIGN SYSTEM ENGINEERING ENERGETICAL / DESIGN FUNDAMENTAL, PROCESS**

**PROJECT COST: BALANCE HEATER STAEM**


kvarh
Varh
Relais,
e

Method watt meter,

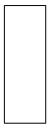
Mid point energy , power, load, index metering e1,e2,e,3,e4,e5,e6,e7,e8e9/9= value, energy instanous, rms, amplitude energetical, power, course , index month week , 30days, 10kwhx24h min 30 kwh max single phase index comptor meter 360 day x10, 3600kwh dast cost 10rand unity 3600rand signle phase vat, unity returned , bala,ce , rual, tree phase 5okwh industrial meter estimate 10+20/2=15kwh eror index 5% read

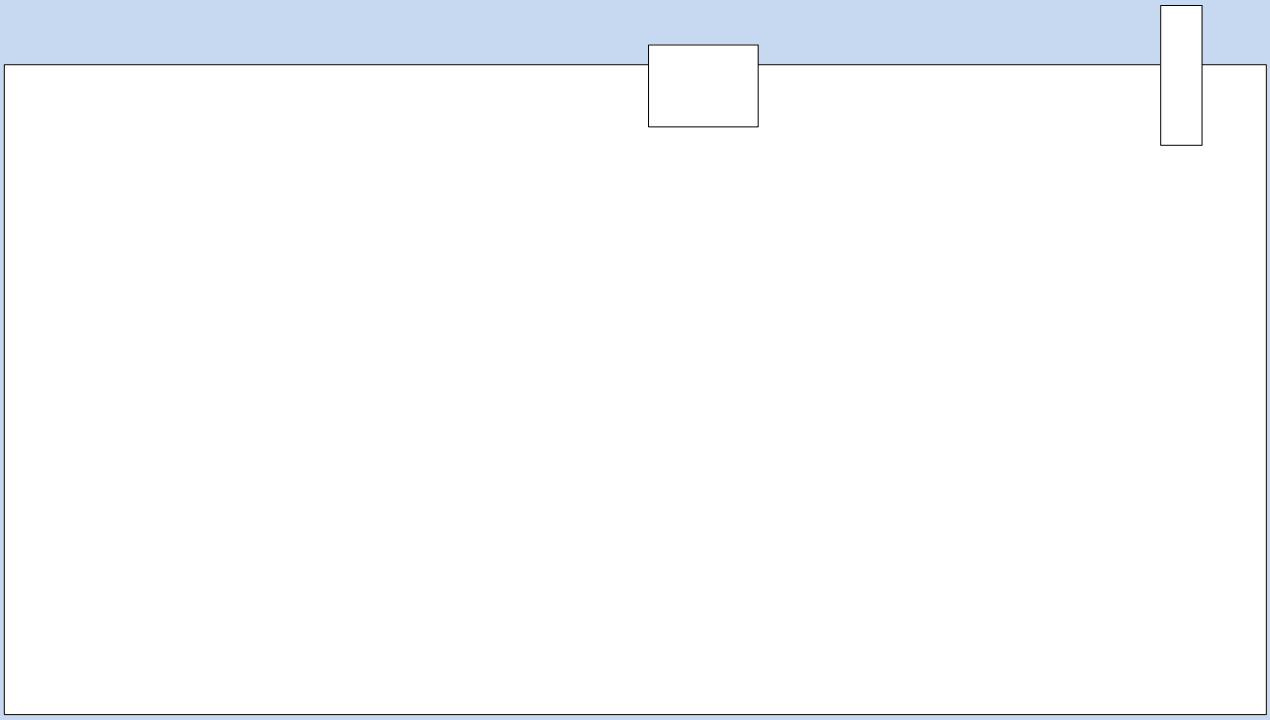
System energetically

Imaginairy system real  drawing system

System rural / energetically /anarchy, circular energetically, institution / bridge relation  , ask compliance entry examination, case non complain, safety , knowledge, system analyse, skill develop , investigate nature, undergo  next years, empower,

Reactance , suspectance, conductance , rural, or, earth, consumer, economical , analyse design ,improvement,





COMPARATIVE DESIGN ORDER UNITY DEVELOPMENT RURAL ENERGETICAL

METER SQUARE DOMMESTICS IN . . KMSQUARE

SIGNLE PHASE

THREE PHASE BALANCE RATE

VALUE

-100 m . 150 m , 80 meter

-light kwh distribution board metering watt meter register

Energetical light , efficacy luminaries, domestically installation

1. Outlet socket power watt amperage mm cable unity
2. Geyser
3. Light t
4. Motor
5. Stove
6. Earth leakage
7.

| DESCRIPTION | VL1 | VL2 | VL2 | BALANCE VALUE | x | x |
|---|---|---|---|---|---|---|
| 1 | | | | | y | |
| 2 | | | | | y | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 stove unity | - | - | - | | | |
| 6 | | | | | | |
| TOTAL/ Energy In energies Out Factor | | | | | Mid point Balance Average Imaginary Real | |

THREE PHASE BALANCE RATE industrial imaginaire real system complex.

| DESRIPTION | VL1, Pl1 | VL2 | VL3 | BALANCE VALUE POWER SUPLY |
|---|---|---|---|---|

1

2

3

4

56

7

TOTAL

KM SQUE FEEDER SUBSTAION POWER STATION TRANSMISSION SYMETRICAL energetically

1km Q=x/l factor power symmetrical disconnected

| Unity | Vl1 | Vl1 | Vl3 | Balance |
|---|---|---|---|---|
| Description | | | | Value |
| Post | | | | |
| Sub station | | | | |
| Feeder | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | | | |

**Metering construction cost instrumental measure unity price cost / factor consumer asking**

| Description | Balance |
|---|---|
| Unity | |

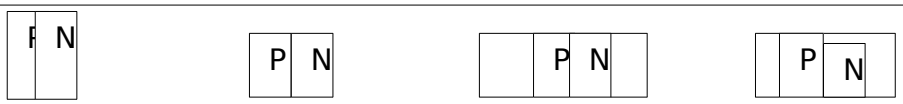
Cost
unity

Energetically industrial , station energetically production industrial network calculation

Calculi network

E1-E2=1R1I+2R2I+3R3I

E1-E3=1R1I+2R2I+2R2I



Consumer real rural single phase ac  dc current . Consumer

Rural consumer  converter  dc / ac current electro energetically,

Network calculi  E1-E2=1R1I+2R2I+3R3I

E1-E3=1R1I+2R2I+2R2I

E=RI,,  r=lo

Xl=Law f  , xc=2 f

Z=$\sqrt{R+lw}$

Z$\sqrt{R+1/cw}$= , p= vi

-Consumer balance rate, meter square :

-Stove heater geyser motor rural system  insulating :

Consumer energetical industrial system  3 phase : factor ask

P1+p2+p3  method three phase system  balance , or equilibrant

Industrial  rural  , site rural supply

Normal consumer  calculation VALUE

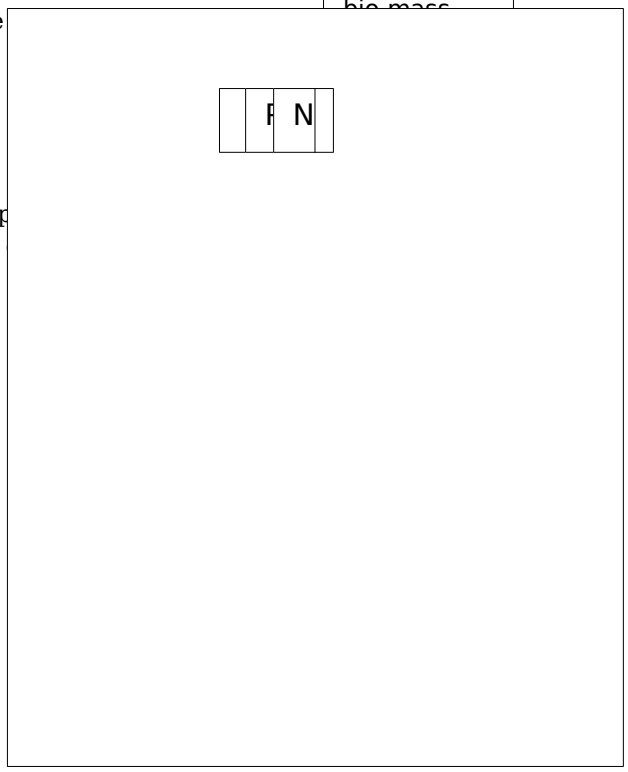
-100 m . 150 m , 80  meter

-light  kwh  distribution board  metering  watt meter register

Energetically light , efficacy luminaries,  domestically  installation

1. Outlet socket  power watt  amperage  mm cable
2. Geyser
3. Light t
4. Motor
5. Stove
6. Earth leakage
7. Kmh  rural  system three phase  regime permanent p
8. Network over load system,  rural  lightning, electronic
   meter, consumer

Rural site , grouped electro gene, ,,geo thermique , bio mass



Real energetically, imaginary rural energetically complex,, imaginary heather imaginary three phase system air time load consumer, imaginary lox, frequency meter load system transmitter system system sabs, imaginair power machine control project electro energetical renew , real energetical zone, separate industrial information plc system

Force power ,,life energetically 24h / 24h / day normal energetically meter system

W=put ,,e= p.t time work 24h.. power v.it voltage energetical stability completed cycle non acheve energetical rescission force vector physical movement , mechanical advantage real time ,,

Force electrocinetcial dynamic, force,,, f=m.g

F=ma+mg or f=ma-mg mass magnetic charge electrical materil factor , force linear equation conservation force

Kinetically , potential e=1/2 energetically cycle work stationary percent work system rescission rural force.magnetical induction, reaction rural, active reactive apparent

Compare energetically, hydraulic, thermal, electrical

Cycle life system design for power generation distribution rural,,

, recycle energetically thermodynamic

Fra

Fac

-reg
eng

-fac

Cor
per

Inst
ma

Pow
inst
480

Ene
volt

Supply utility regulator safety frame work , clearance framework regulator

-safety health labour compensation code if, doll factor energetically land rural

Transmission distribution regulator personnel work protection system health installer,

Safety health system

Machinery regulator labour area support allowed personnel entrance distribute lock system design , machinery regulator land , system across system switch system, , source system machinery to the supply must protection over reach, system , enclose system are insulation m square machinery hazard incidence personnel certificate clearance equipment, safely certification , across and land system design must claim clearance safety system , fence system condition machinery energetizer insulation system regulation, communication radio frequency ,limitation frequency sound, discharge electrical lock key personnel , fire explosion

Struck energetically police , framework regulator no permitted strike system management, rung system care maintenance equipment tom, implantation improvement supply , period over 30 days report

Framework regulator  machinery  act regulator

Factor : power  energy regulator  labour  regulator,

-regulator labour  energetically , electrical , electro technique  electro temechanic science engineering

-factor  regulator installation labour health  regulator

Electro technical  international commission,

Calculation machinery system : balance system equilibrant, 3 phase , single phase :

IL+IL+IL=0 . more less 0  unbalancing  , earth equilibrium , resistivity hearth infinity supply R , resistance , resistivity supply  ,, system  machinery Foucault mass loss gain energetically  factor calculation , calculation insulation  permeability dielectrically factor , body human test insulation blood regulator lab electro technical biophysics test , energetic,

Regulati

Pre start

Penalty

Fail to p

Fail to c

SYMETRICAL VALUE , FIND FAULT ERROR, DISCONECTOR, BREAKCIRCUIT, CURRNT LOAD, K FACTOR POWE R , INSPECTION LOAD ON LINE K RATING FACTOR, KVA/KVA TRANSFORMER

CALCULATION

Reaction x=1/$Z^2+R^2$, condensate factor power compensation explain

Fail to open system energetically equipment

Fai

Fai

Fai

Sta

Lag

Ce

Fai

-

Clearance design , operational energetically

Fail to conservation check pre start , ignision compression system tds, lighting **Conservation energetically, kinetically potentionel**, and factor

$\Delta E = w - u$, *input energy system , output energy system thermal conservation*

Conservation reactor ,plan $\frac{dw}{dQ}\frac{dQ}{dt}$.( $w - u$ ¿ $-(w-u)$ *energetical efficiency thermal , hydraulic .*

H g+mg+zm = energetically, co+co+ch, conservation energetically heather movement velocity source , condenser, E=mc 2 Ek =1/2 mhg E at=m.c.(t1+t2) m.c=mc.(t1+t2) system potential, ,linear, angular 2pin/6o

P.v/t=pv/t adiabatic cycle ,log, ,mass air enthalpy rich ,poor condition , co+ch+ mass molecule, atomic

SYMETRICAL VALUE , FIND FAULT ERROR, DISCONECTOR, BREAKCIRCUIT, CURRNT LOAD, K FACTOR POWE R , INSPECTION LOAD ON LINE K RATING FACTOR, KVA/KVA TRANSFORMER

CALCULATION

Reaction x=1/$Z^2+R^2$, condensate factor power compensation explain

$X^2=Z^2+R^2$

1/Z=

X=2.Lf

K factor

Real system imaginairy

-Public work  energetically , operational duty permit affairs  land  duty functional operational machinery equipment

Municipality urban ,posting rotational development social, administration support coding empire

-Labour  , energetically  code, if doll compensation work operational intent energetically , operational duty permit affairs  land  duty functional operational machinery equipment

Municipality urban ,posting rotational

- Development social in fracture  work place land reform  energetically  code, if doll compensation work operational intent energetically , operational duty permit affairs  land  duty functional operational machinery equipment

Municipality urban ,posting rotational

Industrial  work place transforming  business trading Development social in fracture  work place land reform  energetically  code, if doll compensation work operational intent energetically , operational duty permit affairs  land  duty functional operational machinery equipment , transport

Municipality urban ,posting rotational

Safety  police, security defence support ,low relation  energetically commission criminal fault, Industrial  work place transforming  business trading Development social in fracture  work place land reform  energetically  code, if doll compensation work operational intent energetically , operational duty permit affairs  land  duty functional operational machinery equipment , traffic metropolitan

Municipality hurbain, posting rotational

Health  science biological support humanity political ,body Industrial  work place transforming  business trading Development social in fracture  work place land reform  energetically  code, if doll compensation work operational intent energetically , operational duty permit affairs  land  duty functional operational machinery equipment

Municipality urban, posting rotational,

Mid point energy , power, load, index metering e1,e2,e,3,e4,e5,e6,e7,e8e9/9= value,  energy instanous, rms, amplitude energetical, power,  course , index month week , 30days, 10kwhx24h min 30 kwh max single phase  index comptor meter  360 day x10, 3600kwh dast cost 10rand  unity 3600rand signle phase vat, unity returned , bala,ce , rual, tree phase 5okwh industrial meter estimate 10+20/2=15kwh eror index 5% read relay energetical, power control system overload no transmission recall

ENERGETICAL

KVA=

KV=

Input

Kava output

S

$$Z^2 = X^2 + R^2$$

SYMETRICAL VALUE , FIND FAULT ERROR, DISCONECTOR, BREAKCIRCUIT, CURRNT LOAD, K FACTOR POWE R , INSPECTION LOAD ON LINE K RATING FACTOR, KVA/KVA TRANSFORMER

CALCULATION

Reaction x=1/$Z^2 + R^2$, condensate factor power compensation explain

Vl1=IL1/Z .  30 DEGRE , BALANCE SYSTEM  STAR DELTA TRANSFORMER

VL2=IL2/Z .180 DEGRE

VL3=IL3/Z270 DEGRE

REACTANCE SYSYEM CONDUCTANCE

N

Steam  heater , design plant , thermal power machine, chemical energy ,

Output
Pression,p=

Velocity= temper

Factor

H=m.g

Energetically hydraulic, kW / m cube

P/s=

**Research industrial energetically rural supp**

**Stability static vector maintenance supply**

Robotically operational navigation system rural oad

- Intelligence energetically system mechanism el

-Automatically programmable analyse circuit passive active supply rural ,

- Servo commanded electromechanical system supply rural ,

Recommend network server,

-Transmitter, distributor system network command operational ,

Amplificatory receptor system transmitter *electrotechnic*

, logic system management production energetically ,

Engineering system

Navigation system electro technical telecommunication radio technical system oscillator signal amplificatory,

Transmitter

# Z

**TOPIC MANTORING LEARNER ST PEACE COLLEGE: POE'S ASSESSMENT POLICE**

**THE POLICE INTRODUCTION: SCIENCE / technical career vocational**

**Explanation: low portfolio evidence assessing indentify**

1. section career orientation profile
2. selection process /; choose a career answering
3. question reward living leave , profession answering occupational
4. student guidance counselling police opportunity
5. policing excellent talent
6. Police material study career and fire armed career basic advance filing essential
7. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling

Correlation job policing

For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

-application form college duty reason leave, clearance record college, school graduation last occupation college.

8.1 .peace officer preamble.

Duty police college peace duty responsible protection and enforcing low,

8.2 .objective maintenance low enforcing low

8.2 code ethic

- Special duty assignment case involving college policing duty career

2.3. Propagation priority opportunity duty

2, 3 salary career allowance bursary poling college learner reward booking

2.4 Duties and qualified money, security priority Function Company to prevent investigation occurrence booking, combating crime

2.5 .old private police no longer existed, replace by company security in Function College

- to screen an to detect t movement in private space sector college , special agent intelligence ,

-2.6. employer private security company in sector duty , job opportunity patrol ,officer duty regulation safety and secure space,

-2.7 .police minim cadet junior function seignior college programme orient career profile

2.7.1. programme gymnastic obstacle course subject conduct search police , examination psychology ,psychometric test , polytrophic test collect deb employment test constable weren't , pyrotechnic policing

2.8. Employment opportunity college lecture clerk, salary schedule

2.9. Job requirement operational task, physical demanded study case college,

2.10. Deduction probation life insurance, grade 1- grade 12 salary uniform, transport

2.10. New deputy ranking, constable warrant sergeant, lieutenant brigadier, captain

Experience new treatment ranking

2.11. Performance vector country, good money look

2.11 crime report
2.12. Leistering private police value science private police
2.13. Wath career relate police
2.14 professional a matter criminal, an amateur criminal career art attitude
- Historical statistic criminal report
Uniformed crime report

- Preservation of public peace mistake
- 2.15. court system , division pre trial paralegal police warranty constable
- 2.16. police moral : life police handicap role duty college no working type patrolling nice ruling ,
- 2.17.Police arrest job career orientation assessing labour
- 2.18 , policing , use and of police discretion analysing complain pertinent observation legislature judgement correction
- 2.19 .training finger print , criminal
- Technology crime
- Challenge of crime police college mark completed form unity docket reward , appointed unity research investigation
- Making detective hunted , research drug , Scotland platoon
- Police science unity constable time exact school duty week duty , log activity departure police , time warrant warranty process, time sergeant team target lieutenant , adjutant , colonel brigadier director, colonel , cadet minim junior police school completed . team join operant stationary process
- Sergeant , position object 360 degree scatty /
- Fire arm detection compensation injury fire arm policing training system record Manuel salary pay leave examination deb polygraphs test profile line , career experience work
- Private college , public college brigade unity safety police and security private primary function , secondary function task unity

**THE engineering electrical , mechanical, civil chemical/ police engineering electrical**
**INTRODUCTION: SCIENCE / technical career vocational**

**Explanation: low portfolio evidence assessing indentify**

1. section career orientation profile engineering duty maintenance , installation
2. selection process /; choose a career answering
3. question reward living leave , profession answering occupational
4. student guidance counselling police opportunity
5. engineering electrical , excellent talent
6. Engineering , break down m material study career and fire armed career basic advance filing essential
7. Career : understand job by sleet skill opportunity policing , job duties that what requirement job policing ,correlation of job engineering teach ,inspection duty engineering
   Duty engineering college peace duty responsible protection and enforcing low,
   8.2 .objective maintenance low enforcing low
   8.2 code ethic
   - Special duty assignment case involving college policing duty career
   2.3. Propagation priority opportunity duty
   2,3 salary career allowance bursary poling college learner reward booking
8. 2.4 Duties and qualified money, security engineering priority Function Company to prevent investigation occurrence
9. Engineering minim cadet junior , what career engineering relate , what are Cree engineering , fire arm , machine polygraph oscilloscope detector injury , profession

analyse engineering,

10. Fire arm index  chemical ph concentration base acid detection drug substance  fire arm system information lab,  detection assignment assessment exam  record  over stack over stoking  .

**Career Overview**

A police officer prevents combats and investigates crime. They are called to criminal situations such as robberies, domestic incidents, drug busts and the like.  In addition to this, policer officers patrol the streets to look out for suspicious activity.  They are trained to defend themselves and those in need of defence.  Within a police station, there is a ranking system.  The ranks in the police force are as follows:

1. Detective
2. Corporal
3. Sergeant
4. Lieutenant
5. Captain
6. Deputy chief
7. Chief

[Message clipped] View entire message

**TSHINGOMBEKB TSHITADI <tshingombekb@gmail.com>**

Aug 20, 2022, 9:14 PM (14 hours ago)

to
me

Test orthographic projection

Assessment police tools control circuit

Test framework regulatority mandate low.skill admnise communication test  communication strees .manage system information test info recruitment system activity over stocks test simulation control circuit phase crime analyse source data ..humain induction management system planning test orientation careers.. theory crime incidence evidence test ..crime investigation principle evidence trial test

Paralegal Deb financial test, delivery test assessment activities .file system indicator system ph draug analyse adn..finger print digital relation identify test examin correlation test relation map felonies detection....fire arm study material, health pathology forensics test test examin size mass. Centrifugal microscope blood test.body scamming system file .it dabase..

Test performance police training test Poe evidence values..

**ST PEACE COLLEGE / AND A I P**

**FACULTY : ELECTRICAL ENGINEERING**

**TIME TABLE , / Study by tshingombe tshitadi fiston**

**learner: conies**

**Moderator facilitator instructor: sasseta, seta: security training safety, strategies**

**Trainer performance train training. Manage electronic system :, assessment**

**Learner: khruis /...**

**Faculty: engineering electrical**

SAINT PEACE COLLEGE : EXAM DIPLOMAT

N4- N6 --

EXAMINATION AWARD DEGRE DIPLOMAT ENGINEERING , DIPLOMA

- ASSESSMENT POLICE ,
- ASSESSMENT LABOUR PROCEDURE POLICE SKILL DEVLOPMENT ARTISANT :
- ASSESSMENT TRAINING PROCESS EDUCATION
- ASASSEMENT HEALTH ENGINEERING SCIECENCE

OHS 3/1/4/6 DEPARTMENT OF LABOUR OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
EXAMINATIONS FOR THE MECHANICAL AND ELECTRICAL ENGINEERS CERTIFICATES OF COMPETENCY (FACTORIES)

**TIME TABLE :**

**EXPLANATION AWARD DEGRE DIPLOMAT N1,N2,N3,N4,N5,N6,,,, AWARD DIPLOMAT CERTIFICATE , DIPLOMAT N4-N6 DIFFERENCE : TIME TABLE , N ENGINEERING OUTCOM ON COMPLETION , full time days electrical engineering**

**Periode schedule amandmen: team operator frame implemntation**

| **m** | **t** | **w** | **t** | **f** | **s** | **s** | **Time Periode schedule** |
|---|---|---|---|---|---|---|---|
| **mathemat ic** | Engineerin g science | Power Machine/ | electrotech | Assessmen t Polic Informat, | Ass circulum Electrical engineerig | | 07h00/to 12h00/ |
| | | | | Man syst info - | Fundament al Syste,practi cal panel | | |
| | | | | | | | |
| | Engineerin g drawing | Logic sys | electrotechn olo | | | | 12h00 |
| | | Industrial electronic | | | | | |
| | | | Trade theor | | | | 15hoo |
| | | | | | | | |

Professor: tutor subject , module, DOCTORAL TVET RESEARCH , UNIVERSTITY DISTANCE

Lecture college: TEACHER NOTE TECHNICAL AND ENGINEERING EDUCATOR

Trainer: skill / MASTER SKILL IMPLENT COLLEGE WORKBASE

Facilitator: POLICY

Assessor:EDUCATOR/ ASS POLICY OFFICER , SECURITY , SAFETY INSTRUCTOR EXTRA CIRCULUM COLLEGE

Self assessment peer formative, sumative poe ; YES

**Question/ answering**

**Instruction: safeguard secure, installer rules sabs sans gov keep safe answering question advise , keep clean property , keep intellectual notice board merge papper answering , keep**

Instruction policy assess: offense defens low : term information programmable calculator , invigilator, term restricted advise please ,pliagiarism copyrith textbook policy refernce project design copyrith reserve sign reference team, information recruiting must filled available claim actuary

1. EXPLAIN : To qualify for a Certificate of Competency as Mechanical or Electrical Engineer, the following subjects must be passed by persons accepted as candidates: (a)Plant Engineering (Factories) (b)Occupational Health and Safety Act, 1993, and the regulations promulgated

2. LIST FIVE: To qualify for a Certificate of Competency, candidates must obtain at least 50% of the full marks in each subject stipulated at least in 2.1. Candidates need not pass both subjects at the same examination sitting, but the second subject must be passed within 3 years of passing the first, otherwise both subjects must be re-written. However, if a candidate obtains 75% or more of the full marks in either subject, he will be permanently exempt from re-writing that subject. An appropriate certificate of competency will be issued to candidates who have passed both subjects

3. DISCUSS: No person shall be allowed to write the qualifying examinations unless accepted as a candidate by the Commission of Examiners. No credit will be given for a pass in the subjects mentioned

4. EXPLAIN : A B.Sc. degree in mechanical or electrical engineering recognised by the Commission of Examiners and at least 2 years post graduate experience in the maintenance and operation of mechanical or electrical machinery, as the case may be, which is to the satisfaction of the Commission of Examiners.

5. DISCUSS: A National Higher Diploma (T4) or National Diploma (S4) in mechanical or electrical engineering, (Technikon course) plus at least 2 years subsequent experience in the maintenance and operation of mechanical or electrical machinery, as the case may be, which is to the satisfaction of the Commission of Examiners, and of which at least one year has been at a factory. The completion of such course shall include passing all the subjects with a mark of as least 50%

   \

6. EXPLAIN: he holder of a Certificate of Competency as Mechanical Engineer who wishes to qualify for a certificate as an Electrical Engineer shall re-apply. He/she shall produce proof of appropriate experience, which shall be to the satisfaction of the Commission of Examiners. Such experience shall consist of at least 2 years experience in the maintenance and operation of electrical machinery or at least 4 years “mixed” experience the maintenance and operation of both electrical and mechanical machinery, which was gained after the acquisition of the mechanical certificate. The applicant will

also berequired to produce proof of passing the conversion subjects required to cover the syllabus for the Certificate of Competency as Electrical Engineer, with a mark of at least 5

7. EXPLAIN: ACCEPTABLE TRADES AND EXPERIENCE Trade in which the apprenticeship has been served. Minimum appropriate post apprenticeship experience in the general maintenance and operation of machinery

8. STATEMENT ARE TRUE OER FALSE:
   - 1 (S1) Electrical Engineering (M) (E) T1 (S1) Engineering Mathematics (M) (E) T1 (S1) Engineering Mechanics (M) (E) T1 (S1) Machine Drawings (M) (E) T1 (S1) T2 (S2) Electronics (E) T2 (S2) T3 (S3) Electro-technology (M) T3 (S3) Mechanical Technology (E) T3 (S3) Industrial Electronics (E) T3 (S3) T4 (S4) Applied Thermodynamics (M) T4 (S4) Fluid Mechanics (M) T4 (S4) Mechanics of Machines (M) T4 (S4) Strength of Materials (M) (E) T4 (S4) Electrical Engineering (h.c. or p.e.) (E) T4 (S4) Electrical Machines (E) T4
   (S4).....
   .....

9. EXPLAIN: N3 Engineering Drawing (M) (E) N3 N4 Engineering Science (M) (E) N4 Industrial Electronics (M) N4 Mathematics (M) (E) N4 N5 Fluid Mechanics (M) N5 Strength of Materials (E) N5 Electrotechnics (M) N5 N6 Control Systems (M) (E) N6 Mechanotechnics (M) (E) N6 Power Machines (M) (E) N6 Strength of Materials (M) N6 Fluid Mechanics (M) N6 Industrial Electronics (E) N6 Electrotechnics (E) N6 Supervisory Management (M) (E) N6, To enable holders of the Mechanical Certificate of Competency or vice versa: Electrotechnics (M) N6 Industrial Electronics (M) N6 Strength of Materials (E) N6 Fluid Mechanics (E) N6 (M) – Mechanical Engineering (E) – Electrical Engineering The subjects shown are only the highest levels to be attained. All the grades leading to that level must also be attained with a 50% pass mark (e.g. Electrotechnics N6 includes a pass in this subject on the N3, N4 and N5 levels).
10. EXPLAIN: Questions will be framed on all aspects of the theory and the practical application of such theory in its widest sense as would be expected of a certificated engineer while performing his normal duties. Emphasis is placed on his competency in the execution, control and supervision of the safe installation, maintenance and operation of machinery

EXPLAIN: G Mechanical Students Electrical Students SAFETY AND MANAGEMENTAccident prevention Accident prevention Fire protection Fire protection Risk control Risk control Project management Project management Financial management Financial management Loss control Loss control ELECTRICAL TECHNOLOGYDirect current machines Direct current machines Direct current generators Direct current generators Direct current motors Direct current motors Efficiency of d. c. machines Efficiency of d. c. machines Alternating voltage and current Alternating voltage and current Single and three phase circuits Single and three phase circuits Transformers Transformers Alternator windings Production of a rotating magnetic field Production of a rotating magnetic field Characteristics of synchronous generators and motors Characteristics of synchronous generators and motors Three phase induction motors Three phase induction motors Semi-conductor devices Semi-conductor devices Electric lamps and illumination Electric lamps and illumination Electric power transmission and distribution Electric power transmission and distribution Short circuit conditions Short circuit conditions Circuit breakers Circuit breakers Underground cables Underground cables Insulators Insulators Overhead lines Overhead lines Economics of power supply Economics of power supply Maximum demand Maximum demand Power factor correction Power factor correction High frequency transients Method of earthing Protection Rectification Storage of energy

Information Brochure.doc Page 11Fault discrimination (basics) (Symmetrical faults only) Fault discrimination Communication Explosion proof equipment Explosion proof equipment Lightning protection Lightning protection Basics of data transmission 3. APPLIED THERMODYNAMICS Air- and gas compressors and blowers Air- and gas compressors and blowers (rotary compressors only) Air motor (applications) Compressed air columns Compressed air columns Compressed air receivers Refrigeration and properties of refrigerants Refrigeration and properties of refrigerants Psychometry Steam generators (boilers & ancillary equipment) Steam generators (boilers & Ancillary equipment) Properties of steam Properties of steam Heat balance Condensers Steam and gas turbines Fans Fans (classification) Internal combustion engines Internal combustion engines Fuels and combustion 4. STRUCTURES AND STRENGTH OF MATERIALS Simple stresses Simple stresses Simple stresses and Strain Simple stresses and Strain Thin-walled pressure vessels Thin-walled pressure vessels Torsion of circular shafts Torsion of circular shafts Close coiled helical springs Shear force and bending moments Shear force and bending moments Temperature stresses Temperature stresses Stain energy due to direct stresses Second moment of area Second moment of area Bending stresses Bending stresses Shear stresses in beams Struts and buckling Catenaries Catenaries Foundations Fatigue failure Mechanical and chemical properties of metals Mechanical and chemical properties of metals Testing of

materials Testing of materials Twisting of shafts Ropes Ropes Properties of different types of ropes Reinforced concrete Retaining walls Fastening Fastening

- **Information Brochure.doc Page 125. THEORY OF MACHINES** Conveyors Conveyors Winding plant Winding plant Lifts and Elevators Lifts and Elevators Traction Traction Motion and inertia Motion and inertia Displacement, velocity and acceleration Displacement, velocity and acceleration Static and dynamic balancing Static and dynamic balancing Belt and chain drives Belt and chain drives Brakes and dynamometers Brakes and dynamometers Toothed gearing Gear trains Lubrication Lubrication Clutches Clutches Knowledge of machine tools Knowledge of machine tools Cranes Cranes Lifting equipment Lifting equipment Bearings Bearings Vibrations Vibrations 6. FLUID MECHANICS Hydrostatic transmission Hydrostatic transmission Pumps Pumps Flow-through pipe-lines Flow-through pipe-lines Friction losses Friction losses Characteristics curves (pumps and systems) Characteristics curves (pumps and systems) Material transmission by pipe lines Material transmission by pipe lines Measurement of flow rates Measurement of flow rates Orifices Orifices Pelton wheel Pelton wheel Flow in launders Hydraulic machines, circuits and components 7. ENVIRONMENTAL Characteristics of airflow and measurement Characteristics of airflow and measurement Properties and effects of dust (health) Properties and effects of dust (health) Water [illegible]ification [illegible] purification Waste disposal Waste disposal Pollution Pollution Noise Noise Illumination Illumination

- **EXPLAIN: lant, equipment, practices and processes at factories** with emphasis on the general design, lay out, production capacity, reticulation, energy requirements, motion characteristics, economic operation, efficiency testing, commissioning, maintenance, safety precautions and safety devices. This section is complimentary to and additional to the theoretical curriculum taught at Universities, Technikons or Technical Colleges. 1.Project Engineering including planning (Gantt Charts), management (critical path scheduling), commissioning and development of a planned maintenance scheme; Loss control management, incident investigations and corrective actions; 2.Electrical Plant and Equipment including generation, transforming, rectification, control and measurement; Testing and repairing of electric motors; Phasing and synchronizing a.c. motors operating in tandem; Fault detection in electric systems; Emergency electric plant; Explosion- proof equipment. 3.Hydraulics including hydrostatic drives-classification and characteristics, hydraulic pumps, actuators and circuits for sequence operation; General properties of lubricants and additives to lubricants (oil and grease). 4.Pressure equipment and plant including boiler, super heater and economizer efficiencies, vessels under pressure inspection and testing, steam ancillary equipment and pipe systems; Maintenance and fault diagnosis of compressors, refrigeration compressor and systems; Pumps, pump stations and fluid mechanics; Gas fuel system maintenance and safety; 5.Factory equipment and plant including lifting and conveying machinery, ie lifts, belt conveyors, aerial ropeways, lift trucks, steel rope, chains and connections, welders, heat treatment plant, lathes, drills, the maintenance, inspection and testing and repairs of all typical machinery used in factories; Flammable and hazardous substance environments, machinery and equipment. 6.Strengths and structures of plant including steel structures (stresses), beams, mechanical properties of fabrication materials, heat treatment and application of steel alloys and man made products (ie nylons), abrasion and pro[illegible]structures (steel an other materials). Utilization of concrete, reinforcement, compos[illegible]uring, chemical protection and wear. 7.Environmental engineering including ventilat[illegible] air-conditioning systems, dust suppression, emission control of diesel engines, occupational noise originated by machines and hearing protection, illumination types, effects and efficiencies. 8.Safety equipment and systems includes machine guarding, automatic control systems, detection systems, safety precautions and safety devices as found and used on all types of machines; Fire prevention equipment and systems, flammable and hazardous substance plants and continuous plant.

- **EXPLAIN AND DISCUSS : POLICY SAFETY POLICE PROCEDURE LABOUR SKILL DEVELOPMENT** : The Occupational Health and Safety Act, 1993 (No. 85 of 1993) any subsequent amendments including the definitions. 2.Regulations promulgated in terms of section 43 of the Act including all amendments to the Regulations (a)The “General Administrative Regulations” (Notice No. R. 929 of 25 June 2003). (b)The “Electrical Installation Regulations” (Notice No. R. 2920 of 23 October 1992). (c)The “General Safety Regulations” (Notice No. R. 1031 of 30 May 1986). (d)The “Asbestos Regulations” (Notice No. R. 155 of 10 February 2002). (e)The “Environment Regulations for Workplaces” (Notice No. R. 2281 of 16 October 1987). (f)The “Driven Machinery Regulations” (Notice No. R. 295 of 26 February 1988). (g)The “General Machinery Regulations” (Notice No. R. 1521 of 5 August 1998). (h)The “Electrical Machinery Regulations” (Notice No. R. 1593 of 12 August

1988). (i)The “Facility Regulations” (Notice No. R. 2362 of 5 October 1990). (j)The “Lead Regulations” (Notice No. R. 236 of 28 February 2002). (k)The “Vessels Under Pressure Regulations” (Notice No. R. 1591 of 4 October 1996). (l)The “Lift, Escalators and Passenger Conveyor Regulations” (Notice No. R. 797 of 29 April 1994). (m)The “Hazardous Chemical Substances Regulations” (Notice No. R. 1179 of 25 August 1995). (n)The “Major Hazard Installation Regulations” (Notice No. R. 692 of 30 July 2001) (o)The “Regulations for Hazardous Biological Agents” (Notice No. R.1390 of 27 December 2001). (p)The “Explosive Regulations” (Notice No. R.109 of 17 February 2003OCCUPATIONAL HEALTH AND SAFETY ACT 85 OF 1993[ASSENTED TO 23 JUNE 1993][DATE OF COMMENCEMENT: 1 JANUARY 1994](except s. 1 (3) (b): to be proclaimed)(English text signed by the State President)as amended byOccupational Health and Safety Amendment Act 181 of 1993Labour Relations Act 66 of 1995Regulations under this ActASBESTOS REGULATIONS (GN R155 in GG 23108 of 10 February 2002)CERTIFICATE OF COMPETENCY, REGULATIONS CONCERNING THE (GN R533 in GG 12337 of 16 March 1990)CONSTRUCTION REGULATIONS (GN R1010 in GG 25207 of 18 July 2003)DIVING REGULATIONS (GN R10 in GG 22991 of 11 January 2002)DRIVEN MACHINERY REGULATIONS (GN R295 in GG 11152 of 26 February 1988)ELECTRICAL INSTALLATION REGULATIONS (GN R2920 in GG 14350 of 23 October 1992 i*)ELECTRICAL MACHINERY REGULATIONS (GN R1593 in GG 11458 of 12 August 1988)ENVIRONMENTAL REGULATIONS FOR WORKPLACES (GN R2281 in GG 10988 of 16 October 1987)EXPLOSIVES REGULATIONS (GN R109 in GG 24272 of 17 January 2003)FACILITIES REGULATIONS (GN R924 in GG 26636 of 3 August 2004)GENERAL ADMINISTRATIVE REGULATIONS (GN R1449 in GG 17403 of 6 September 1996)GENERAL ADMINISTRATIVE REGULATIONS, 2003 (GN R929 in GG 25129 of 25 June 2003)GENERAL MACHINERY REGULATIONS (GN R1521 in GG 11443 of 5 August 1988)GENERAL SAFETY REGULATIONS (GN R1031 in GG 10252 of 30 May 1986)LEAD REGULATIONS (GN R236 in GG 23175 of 28 February 2002)LIFT, ESCALATOR AND PASSENGER CONVEYOR REGULATIONS (GN R797 in GG 15658 of 29 April 1994)MAJOR HAZARD INSTALLATION REGULATIONS ii* (GN R692 in GG 22506 of 30 July 2001)NOISE-INDUCED HEARING LOSS REGULATIONS (GN R307 in GG 24967 of 7 March 2003)REGULATIONS FOR HAZARDOUS BIOLOGICAL AGENTS (GN R1390 in GG 22956 of 27 December 2001)REGULATIONS FOR HAZARDOUS CHEMICAL SUBSTANCES (GN R1179 in GG 16596 of 25 August 1995)REGULATIONS FOR THE INTEGRATION OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1995iii* (GN R639 in GG 16387 of 28 April 1995)VESSELS UNDER PRESSURE REGULATIONS (GN R1591 in GG 17468 of 4 October 1

- **LIST FIVE**

| | | |
|---|---|---|
| **Engineering/ safety engineering**<br><br>**Completed ,protection** | **engeneering labour / inspect educator**<br>**Inspector labour skil** | **Engineering / policy and policy labour** |

| | | |
|---|---|---|
| **Design creation component . Safet managemnt prevention low Warning ,protection device incidence hazard accident , Sabs , sans regulator low motion Creation skill .** | Inspector labour basic condition Levy , skill development , coid frame work relation labour collective misconduc, fault, award ruling compensation frame accident | Frame work regulator , implementing , Legislat, Policy informer procedure claim, Assess identify claim available procedure Term claim fiscality power: |
| **F=ma+mg** | F>ma+mg | Case: F=ma+mg,,complain F>ma+mg |
| **Copleted** | | |
| **The supply of electricity to South African houses is a nominal 230 volts of alternating current (AC). The supply to all circuits in the house is also the nominal 230V, but the amp rating of the circuits will vary according to the amount of power each circuit is required to deliver.**<br><br>**e south african national standards and the electrical contractor**<br><br>**19 Feb 2019 — According to the Occupational Health and Safety *Act* 1993 (*Act* No 85 of 1993), the *South African* electrician's work must comply with SANS ...**<br>**Do electrical cables need to be in conduit?**<br><br>**The electrician will later pull the wires through these tubes. There are classes of cable that do not need to be encased in conduit and can be chased into, and laid directly under the plaster. ... When the roof is on and waterproof the cables can also be layed in the roof space for overhead lighting and other fittings. How much does it cost to wire a house in South Africa?** | Electrical Machinery Regulations Learning Objectives9Electrical Control Gear9Portable electric tools9Inspection authorities9Bare conductors on premises Electrical Machinery Regulations Electrical Machinery RegulationsElectrical control gear4Label all controlling apparatus, on the front and back if applicable.4Notices shall be posted at control gear of locked out electrical Machinery(Warning).4No person shall act contrary to this warning. Electrical Machinery RegulationsPortable electric toolsThe Use of portable electric tools operating at more than 50V is prohibited unless ~4Earth leakage protection is provided as per SABS 767.4Individual double wound isolating transformer. Secondary unearthed(SABS 743).4High frequency generator approved by the Chief inspector. Electrical Machinery RegulationsPortable electric tools4Double or reinforced insulationPortable electric tool with double or reinforced insulation cannot be sold unless~4It is clearly marked.4Insulation constructed as per SABS 1157.Portable electric tool cannot be used unless it has a on and off switch.User to maintain in a serviceable condition. | *Frame* wirers , see : Communications equipment *mechanics* 333 Freight , stock , and ... see : Metalworking and plastic - *working* machine operators . *Frame* wirers , see : Communications equipment *mechanics* 333 Freight , stock , and ... see : Metalworking and plastic - *working* machine operators . case machinery personel, |

| | | |
|---|---|---|
| **Wiring a 3-bedroom house costs range between R20,000 / complete wiring and R30,000 / complete wiring with an average of R25,000 / complete wiring.**<br>**...**<br>**Price per point.**<br>**Average cost** **R400 / per point**<br>**Cost range** **R300 – R500 / per point**<br><br>**Pricelist - prices 2021: Home wiring \|**<br><br>**: How much does it cost to wire a house in South Africa?**<br>**Are house wiring standards?**<br>**(1) IS:732 - 1989 Code of practice for electrical wiring installations. (2) IS: 4648 - 1968 Guide for electrical layout in residential buildings. (4) IS: 8884 - 1978 Code of practice for installation of electric bells and call system. (5) IS: 5578 - 1985 Guide for marking of insulated conductor.**<br><br>**LIST OF APPLICABLE INDIAN STANDARDS FOR ...**<br><br>***http:// environmentclearance.nic.in › Risk_Assessment***<br><br>**Search for: Are house wiring standards?**<br>**What Colour is neutral wire in South Africa?**<br><br>**blue**<br>**In South Africa these wires are identified as follows: brown - LIVE (PHASE) blue - NEUTRAL.**<br><br>**Electrical Colour Codes - KES-SA**<br>***c***<br><br>**Search for: What Colour is neutral wire in South Africa?**<br>**What exactly is the neutral wire?**<br>**Neutral wire carries the circuit back to the original power source. More specifically, neutral wire brings the circuit to a ground or busbar usually connected at the electrical panel. This gives currents circulation through your** | Electrical Machinery RegulationsApproved Inspection AuthoritiesThe Chief inspector may~4Approve any organisation performing prescribed functions regarding the testing and manufacture of electrical machinery.4Require certain submissions(E.g. Equipment, resources, qualifications, experience etc.).4Withdraw approval at any time SCHEDULE ADMINISTRATIVE AGREEMENT Deductions ·from Earnings No.34552 9 Clause 5 Clause 13 Employees' Representatives on the Council Clause 14 Prohibition of Cession of Benefits MAIN AGREEMENT-DIVISION A Clause 2.2 Clause 3.8 Clause 3.10 Clause 3.11 Clause 3.13 Clause 5.1 Clause 5.2 Clause 5.3 Clause 7.1 Clause 7.3 Clause 7.4(1) Clause 7.5 Clause 9.1 Clause 9.3(2) Clause 9.6 Definitions Payment of Earnings Piece Work Commission Work Travelling Allowances Annual Leave and Accrued Leave Pay Sick Leave Maternity Leave Termination of Service Retrenchment Pay Desertion Certificate of Service Outwork Damage and/or Loss of Property or Assets Public Holidays 10 No. 34552 GOVERNMENT GAZETTE, 26 AUGUST 2011 (b) Notwithstanding the provision of subclause (3)(a) of this clause or any other provisions to the contrary, employees earning in excess o | |

| | | |
|---|---|---|
| | Replace removal | |
| | | |

Quality control completed 100mark value weight application knwoldge ,

completed
100mark

# st peace college filing

NAME/ LEARNER : TSHINGOMBE -TSHITADI

MODERATOR: MR BENJAMIN

ASSESSOR POL/ ENGI: MR JACSON

DIRECTOR : MANAGER /PRICIPAL : CONIE

**ST PEACE COLLEGE / AND A I P**

**FACULTY : ELECTRICAL ENGINEERING**

| CREDIT SUBJECT MODULE | REQUIRE FILING CONTENT SUBMISION. ASS .POL / ASS ENGINEERING ELECTRICAL COMPLETED WEEK : / | CORE , ELECTIVE FONDAMENTAL | CREDIT | TOTAL MARK | |
|---|---|---|---|---|---|
| **ELECTRICAL ENGINEERING -NATIONAL FRAMEWORK NATIONAL DIPLOMA N, 1TH ,2TH ,3TH SAQA, -EXAMINATION NATIONAL N, -LEARNER ENGINEEER -ASSESSOR** | LEVEL:NQF 1,NQF2,NQF3,NQF4,NQF5,NQF6 N1.N2,N3,N4,N5,N6 L1,L2,L3,L4,L5,L6 LEARNER LP1,LP2,LP3,LP4,LP5,LP6,LEARNER POLICE ASS1,ASS2,ASS3,ASS4,ASS5,ASS6 ASSESSOR,<br><br>NQF 7,12 | | 250<br>8<br>8<br>8<br>8<br>7 | AWARD<br>100<br>100<br>100<br>100<br>100<br>100 | |
| **SUBJECT ENGINEERING SCIENCE ENGINEERING DRAWING N1/2 TRADETHEORY ELECTRICAL - ELECTROTECHNOLOGY ELECTROTECHNIC MATHEMATICS INDUSTRIAL ELECTRONICS LOGIC SYSTEM EDUCARE INDUSTRIEL ORIENT PLANING TOPIC / POLICING** | LEVEL:NQF 1,NQF2,NQF3,NQF4,NQF5,NQF6 N1.N2,N3,N4,N5,N6 L1,L2,L3,L4,L5,L6 LEARNER LP1,LP2,LP3,LP4,LP5,LP6,LEARNER POLICE ASS1,ASS2,ASS3,ASS4,ASS5,ASS6 ASSESSOR,<br><br>NQF 7,12 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **NQF4,5,6 INFORMATION MANSYST INFO MANAGE SYS** | | | | | |
| **ADM COMMUNICAT SYST** | | | | | |
| **INVESTIGAT CONDUCT** | | | | | |
| **TRAFFIC LOW,** | | | | | |
| **PARALEGAL** | | | | | |
| **OUTCOM TOTAL CREDIT FILE BALANCE** | Hod filing department document need policing | | | | |

**Assessment police / required : enginnering electrical need**

Enginneering ruling subject : investigate thing knowledge wath happened / if no yet policing correct ass/

- Design planing component: nqf 6/5 , ass activity
- Research advenced field n qf :6/5
- Enderg planning o skill planee next years :6/5 ,ass activity
- Development skill component: nqf6/5 ass, activty
- Science natural mathematic chemistri physic : nqf5,5
- Device protection component component skill nqf6
- Ensuring maintenance care component ,;
- Discovering skill nqf/6, nqf
- Idee improvement tpm self no copying idee criminel
- Inspect find fault
- Construction brigde design
- Defense force militairy operationel

Nqf5,6 : policing investigate; RESOLVE OF CRIME / frammework regulatory enginneringg compliance, deliveri,

Crime incidence vehicle

STEP : collating collecting crime information / legal paralegal

crime source information, identify crime , describe crime:analyse crime

**translate referal : award degree diplomat 1th , saqa qualification dr congo topic equivalente originator**

**Engineering Science Assignment (National 4) / translate scotish**
**SCQF:** level 4 (6 SCQF credit points)
**Unit code:** H23E 74
**Unit outline**

This is the Added Value Unit in the Engineering Science (National 4) Course. The general aim of this Unit is to enable the learner to provide evidence of added value for the Engineering Science (National 4) Course through the successful completion of an assignment which will allow the learner to demonstrate challenge and application.
Learners who complete this Unit will be able to:
1 Develop, with guidance, an engineering solution which will draw on and apply skills and knowledge of mechanisms, structures and electronic control systems
This Unit is a mandatory Unit of the Engineering Science (National 4) Course and is also available as a free-standing Unit. The Unit Specification should be read in conjunction with the *Course Support Notes*, which provide advice and guidance on delivery and assessment approaches. Exemplification of the standards in this Unit is given in *Unit Assessment Support*.
**Recommended entry**

Entry to this Unit is at the discretion of centre. It is recommended that the learner should be in the process of completing, or have completed, the Units of the Engineering Science (National 4) Course:
♦ Engineering Contexts and Challenges (National 4)
♦ Mechanisms and Structures (National 4)
♦ Electronics and Control (National 4)

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 2
September 2018, version 1.1

**Equality and inclusion**

This Unit Specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when

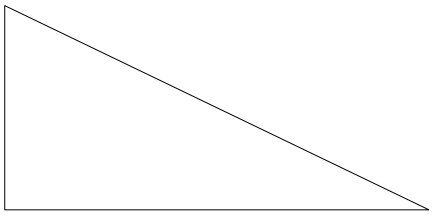
Candidate's Name: _____

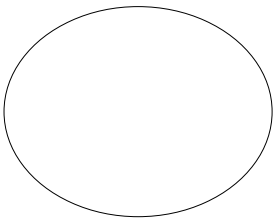
Class : _____

The candidate should achieve at least half of the available points for operational skills and at
least half of the available points for reasoning skills across the test as a whole

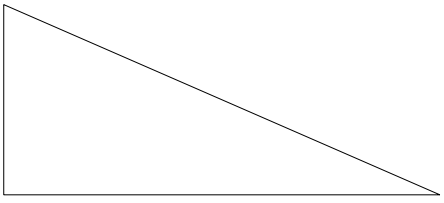
| Part | Question | Operational Skills | Reasoning Skills |
|---|---|---|---|
| **1**<br>**2**<br>**3**<br>**4**<br>**4** | | | |
| **Total points of Total achieved process and accuracy available** | Point achiev | | Total number of Total achieved opportunities for reasoning skills |
| | | | |
| | | | |
| | | | |
| | | | |

Formulate a+b=c





$A=\pi r^2$



H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 3
September 2018, version 1.1

**Standards**

**Outcomes and assessment standards**

**Outcome 1**

The learner will:

**1 Develop, with guidance, an engineering solution which will draw on and apply skills and knowledge of mechanisms, structures and electronic control systems by:**

1.1 Analysing a straightforward problem
1.2 Designing a solution to the problem
1.3 Simulating or constructing a solution to the problem
1.4 Testing and reporting on the solution to the problem

**Evidence Requirements for the Unit**

This Unit will be assessed through controlled assessment which meets the Evidence Requirements below.

Evidence for this Unit will be generated through an assignment in which the learner will draw on and apply skills and knowledge related to mechanisms, structures and electronic control systems. The assignment will assess learners' skills in analysing a problem, designing a solution to the problem, simulating or constructing a solution to the problem, and testing and reporting on that solution.

The assignment is:

♦ set by centres within the SQA guidelines described below
♦ conducted under some supervision and control

Evidence will be internally marked by centre staff in line with SQA guidelines.
All assessment is subject to quality assurance SQA.

**Setting the assessment**

The assignment will be set by centres within the following guidelines:

♦ The specification for the assignment will be agreed between the learner and the teacher/lecturer.
♦ The assignment will be a meaningful and appropriately challenging task, which should clearly demonstrate application of knowledge and skills, at an appropriate level, from both the Mechanisms and Structures Unit and the Electronics and Control Unit (as defined in the 'Further mandatory information on Course coverage' section of this document).

**Projection planning explanation**

**Assessment: formative summative portfolio evidence : examination, test , class work homework assignment**

**Self assessment; self evaluation continuing supplementary nqf 1, 2, 3,4,5,6**

Assessment police: and basement engineering training process:

Orientation guidance Manuel process hand School College st peace/

Completed skill development assessment test 1,2 control , 1th ,2th,3th,4th week

Question panel wiring electrical. Wiring / assignment homework

Qestion1:

safety 1, security make design panel wiring label safety hazard electrical , incidence electrical ,fire electrical dangerous high voltage , zone

-Safe security circuit insulation need wath key locked:

-Installation opens air close air

-List five shoots circuit:

-List code colour connection:

-Tools hand fit cabling component, drilling, bending

Question 2: design distributer box db circuit make, stove, socket outlet appliance electrical

- Disconnected, overload

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 4
September 2018, version 1.1

**Conducting the assessment**

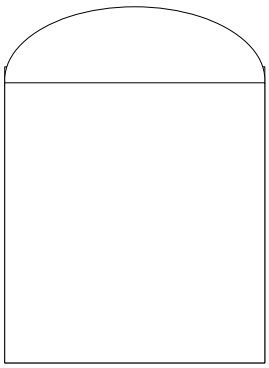
The assignment will be conducted under some supervision and control. This will take the form of the following:

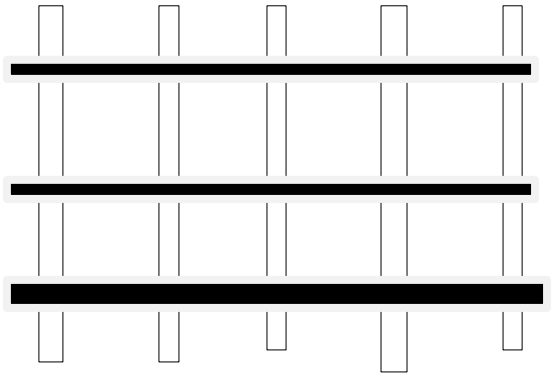
- The assignment will be carried out under supervised open book conditions.
- The teacher/lecturer may also give learners some support and guidance, as appropriate to National 4 level, to help them progress through each stage of the assignment. The amount of support provided should be reflected in the assessment judgement.

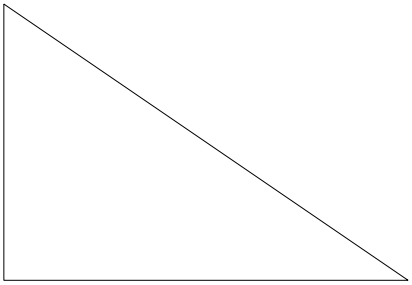
**Judging the evidence**

Evidence will be internally marked and verified by centre staff in line with SQA guidelines.
All assessment is subject to quality assurance by SQA.
Evidence should include:

- the completed solution
- a record of progress through the assignment (such as an informal electronic log or diary produced by the learner)
- a short report on the testing of the solution (in written, electronic and/or oral form)







H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 5 September 2018, version 1.1

**Assessment standard thresholds**

If a candidate successfully meets the requirements of the specified number of Assessment Standards they will be judged to have passed the Unit overall and no further re-assessment will be required.

The specific requirements for this Unit is as follows:

♦ 3 out of 4 Assessment Standards must be achieved.

It should be noted that there will still be the requirement for candidates to be given the

**Assessment: formative summative portfolio evidence :**

**Self assessment; self evaluation**

Assessment police: and basement engineering training process:

Orientation guidance Manuel process hand School College

- **Question.**
  Wath do you understand by the word code of conduct:
  Answer /. And carry out: for a grouped organisation is an agreement on rules of behaviour for the members of that group or organization, need to protect if is urgent
  **20 mark**
- **Question.**
  -Give four reason why must code of conduct be introduce at school:
  Answer/ reason for education to protégé learner and staff school
- Safety and security learner
- – prevent crime school
- Police investigation and stop criminal learner **20 mark**
- **Question.**

Give three reason a learner shall be gaiter of misconduct:

-answer/ for learner criminal /omission fault no practice school code conduct.

4. **Question.** **20 mark**

.give three procedures to deal with misconduct other criminal offence.

-answer procedure. Correct action takes by learner. Assault undisciplinair to authority learner smoke drinking at school, learner, use upon and gun.

5. **Question.** **20 mark**

Write five good things discover about .list five

Answer – learner discover life orientation extract curriculum coverage module

-learner discovers ways mentality, vision space.

-Learner discover, means for speak and write language,

-learner discover gate air time money free beneficial intellectual, award recognise at school

6. **Question.**
**20mark**

Listed five – rich a learner:

Answer –learner right to correct agrees with the fact

- Learner school society rigth to completed to speak real
- Learner school examination and result to completed
- Task -/ learner school on line visa permit right research humane
- Learner school on right to appeal process register

7. **Question.** **20mark**

List three responsibilities of a learner:

Answer

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 6
September 2018, version 1.1

**Development of skills for learning, skills for life and skills for work**

Please refer to the *Course Specification* for information about skills for learning, skills for life and skills for work.

Enginnering science : module completed

Mathematic : algebraic linear: basic foundamental enginnering , f= ma+mg , v=u+at,p=wxt , fu=f/t, , heat =m a x cxti-t2

EQUATION ALGEBRAIC, ,,LINEARING EXPONENT

Ax+by=0

Trade theori electrical :

Electrotehnology:

Industrial electronic :

Ass/ pol ruling value ,poe /pass if not process policing

- Design planing component: nqf 6/5 , ass activity
- Research advenced field n qf :6/5
- Enderg planning o skill planee next years :6/5 ,ass activity
- Development skill component: nqf6/5 ass, activty
- Science natural mathematic chemistry physic : nqf5,5
- Device protection component component skill nqf6
- Ensuring maintenance care component ,;
- Discovering skill nqf/6, nqf
- Idee improvement tpm self no copying

Policing crime resol:

: policing investigate; RESOLVE OF CRIME / frammework regulatory enginneringg compliance, deliveri,

Crime incidence vehicle

STEP : collating collecting crime information / legal paralegal

crime source information, identify crime , describe crime:analyse crime

/crime zone no protect over load identify plan module subject completed source and need , design describ analyse feed back criminel,, trade theory safety

H23E 74 Engineering Science Assignment (National 4) Added Value Unit Specification 7
September 2018, version 1.1

**Further mandatory information on Course coverage for the Engineering Science (National 4) Course**

The following gives details of mandatory skills, knowledge and understanding for the Engineering Science (National 4) Course. Assessment of this Added Value Unit will involve selecting appropriate skills, knowledge and understanding from those listed below, in line with the Evidence Requirements above. This list of skills, knowledge and understanding also provides the basis for the assessment of all the Units in the Course:

<table>
<tr><td>Course themes<br>The systems approach<br>simple system and sub-system diagrams, showing inputs and outputs<br>systems analysis of an environmental control system<br>systems analysis of a renewable energy device<br>working of simple engineered objects<br>Energy and efficiency</td><td>the law of conservation of energy<br>energy transfers, losses and transformations in a system, involving kinetic, potential, electrical and heat energy<br>calculations involving efficiency, work done and power, using:<br>$E_w$ =Fd P=E/t,<br>Efficiency η = $E_{out}/E_{in}$ = $P_{out}/P_{in}$</td></tr>
<tr><td>Engineering Contexts and Challenges<br>Engineering roles and disciplines<br>applications of civil, mechanical, electrical and chemical engineering<br>roles of engineers in designing, implementing, testing and controlling systems<br>Impacts of engineering</td><td>social, economic and environmental benefits of engineering<br>impacts of a renewable energy project on the environment and community<br>contribution of engineering to tackling climate change</td></tr>
<tr><td>Electronics and Control<br>Analogue electronic control systems</td><td>symbols, and simple description of function of: battery; switch; resistor; variable resistor; LDR; thermistor, LED; diode; motor; lamp; ammeter and voltmeter<br>concept of voltage, current and resistance<br>measurement of resistance, voltage and current using a meter<br>explanation of the operation of a fixed voltage divider</td></tr>
<tr><td>Digital electronic control systems<br>use of a fixed voltage divider to generate a signal<br>use of resistors in electronic systems for component protection</td><td>Description of AND, OR and NOT gates using truth tables.<br>use of correct symbols (start, stop, input, output, branch, loop) to construct flowcharts showing solutions to simple control programs</td></tr>
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</table>

| | | | |
|---|---|---|---|
| | **correct symbols(start, stop, input, output, branch, loop)to construct flowcharts showingsolutionstosimple controlprograms** | | symbols(start, stop, input, output, branch, loop)to construct flowcharts showingsolutionstosimple controlprograms |
| **Structures and forces**<br><br>**Materials** | **effects of a force**<br>**concurrent forces, equilibrium**<br>**use of triangle of forces and free body diagrams** | compression, tension, shearing and bending<br>properties of materials | |
| | | | |
| | | | |

**Administrative information**
**Published:** September 2018 (version 1.1)

**Superclass:** XA

**History of changes to National Unit Specification**

| **Version** | **Description of change** | **Authorised by** | **Date** | | | | | |
|---|---|---|---|---|---|---|---|---|
| **1.1** | **Assessment standard thresholds updated** | **Qualifications Manager** | **September 2018** | | | | | |
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|---|---|---|---|---|
| The mandatory skills and knowledge will be developed throughout the Course. The table below shows where there are significant opportunities to develop these in the individual Units.<br>**Mandatory skills and knowledge** | **Engineering Contexts and Challenges** | **Electronics and Control** | **Mechanisms and Structures** | **Added Value Unit** |

| | | | |
|---|---|---|---|
| analysing, with guidance, straightforward engineering problems | | | |
| designing, developing, simulating, building and testing, with guidance, solutions to straightforward engineering problems in a range of contexts | | | |
| investigating, with guidance, some existing and emerging technologies | | | |
| communicating basic engineering facts and ideas clearly and concisely using appropriate terminology | | | |
| awareness of the many branches of engineering: electrical, mechanical, civil and chemical | | | |
| basic knowledge of the wide role and impact of engineering on society and the environment | | | |
| basic knowledge of the workings of a range of simple engineered objects | | | |
| knowledge of key facts and ideas related to electronic and microcontroller-based control systems, and their application | | | |
| knowledge of key facts and ideas related to mechanical, structural and pneumatic systems, and their application | | | |
| basic knowledge of the relevance of energy, efficiency and sustainability to straightforward engineering problems and solutions | | | |
| applying engineering knowledge and skills in a range of straightforward contexts | | | |

*Engineering Contexts and Challenges*
*Electronics and Control*
*Mechanisms and Structures*
*Engineering Contexts and Challenges*
*Electronics and Control*
*Mechanisms and Structures*

**Sequence of delivery**

The sequence of delivery of the Units within the National 4 Engineering Science Course is at the discretion of the centre, and the models suggested below simply exemplify possible approaches which may be developed to suit individual circumstances and resources.

The example structures outlined below are similar to those shown in the National 5 *Course Support Notes* so that centres may plan, where applicable, for delivery to mixed level groups. (Further suggestions and specific advice can be found in the Unit Support Notes.)

**Fitting the Added Value Unit into a Course plan**

Note that the delivery of the Added Value Unit (*Engineering Science Assignment*) has been omitted from the diagrams and examples which follow. As the Added Value Unit is intended to build on knowledge, understanding and skills developed through the other Units, it will normally be delivered at the end of the Course. However, it may be possible to begin work on the Added Value Unit at an earlier stage, but only where it is clear that learners have already gained the required skills and knowledge.

**Example 1a: Sequential delivery of the Units, beginning with *Engineering Contexts and Challenges***

In this example, the three Units are delivered sequentially, beginning with *Engineering Contexts and Challenges*, which provides an introduction to some important concepts which underpin the whole Course, including the systems approach and energy.

The other two Units — *Electronics and Control*, and *Mechanisms and Structures* — may then follow, deepening the learners' experience in these more focused areas. These two Units may

In this approach, the induction phase introduces the learner to the systems approach. This might involve the analysis of simple products and engineered systems. Typically this stage will only require a short time, but the systems approach will permeate the Course and so the learner's knowledge and ability to analyse the engineered world will develop throughout the whole Course. The second phase, occupying most of the Course time, is where the majority of the engineering knowledge and skills are introduced and then developed. The modules may be taught in any order and covered in a linear or concurrent manner.
In the final phase, the more demanding engineering concepts are

**Comparison of** level delivery
 ensuring seamless progression between levels
 identifying important prior learning for learners at National 5

Teachers should also refer to the Outcomes and Assessment Standards for each

| Topic | National 4 National 5 | National 4 National 5 ,6 | |
|---|---|---|---|
| **The system** | simple system and sub-system diagrams, showing inputs and outputs<br>systems analysis of an environmental control system<br>systems analysis of a renewable energy device<br>working of simple engineered | systems and sub-system diagrams<br>function of a system in terms of input — process — output and feedback loops<br>open and closed loop control<br>interaction of sub-systems | |
| | Energy and efficiency<br>the law of conservation of energy<br>energy transfers, losses and transformations in a system, involving kinetic, potential, electrical and heat energy<br>calculations involving efficiency, work done and power, using:<br>Ew = Fd P = E/t,<br>Efficiency η = Eout/Ein = Pout/Pin | application of the law of conservation of energy<br>calculations involving forms of energy (kinetic, potential, electrical, heat)<br>energy transfers, losses and transformations in a system<br>energy audits and calculation of overall efficiency<br>applied calculations involving efficiency, work done and power, using:<br>Ew = Fd P = E/t,<br>Ek = ½ mv2 Ep = mgh<br>Ee = VIt Eh = cmΔT<br>Efficiency η = Eout/Ein = Pout/Pin | |
| **Calculations** | substituting values into given formulae to obtain answers | manipulating given formulae to obtain answers | |
| **Engineering roles and disciplines** | applications of civil, mechanical, electrical and chemical engineering<br>roles of engineers in designing, implementing, testing and controlling systems | examples of applications of environmental, civil, structural, mechanical, chemical, electrical and electronic engineering<br>examples of the contribution of branches of engineering to solve engineering challenges that integrate branches of engineering<br>the varied roles of engineers in designing, implementing, testing and controlling complex systems | |
| **Impacts of engineering** | social, economic and environmental benefits of engineering | examples of social and economic impacts (positive and negative) of engineering | |

| | | | |
|---|---|---|---|
| | impacts of a renewable energy project on the environment and community<br>contribution of engineering to tackling climate change | examples of environmental impacts (positive and negative) of engineering<br>ways in which engineering solutions contribute to tackling climate change | |
| **Circuit diagrams and components** | symbols, and simple description of function of: battery; switch; resistor; variable resistor; LDR; thermistor, LED; diode; motor; lamp; ammeter and voltmeter | function and purpose within a circuit of: battery; switch; resistor; variable resistor; LDR; thermistor, LED; diode; motor; lamp; ammeter and voltmeter<br>description of function of a circuit in terms of input, process and output | |
| **Voltage, current, and resistance** | concept of voltage, current and resistance<br>measurement of resistance, voltage and current using a | calculations involving the relationship between voltage, current and resistance (Ohm's Law)<br>calculations involving resistors in series and parallel<br>Voltage dividers<br>explanation of the operation of a fixed voltage divider<br>use of a fixed voltage divider to generate a signal<br>calculations of voltage, | |
| **Transistors and amplifiers** | **use of resistors in electronic systems for component protection** | **function of a relay and a protection diode in an electronic circuit<br>explanation of the switching function of a transistor<br>the operation of an electronic control circuit which includes a variable voltage divider, transistor, relay and output transducer** | |
| **Digital logic** | **description of AND, OR and NOT gates using truth tables** | **AND, OR and NOT gates, and combinations with up to three inputs, using truth tables and Boolean expressions** | |
| **Microcontroller control systems** | **examples of the use of microcontrollers in commercial and industrial applications<br>advantages and disadvantages of microcontroller-based control systems compared to a hard-wired electronic equivalent** | | |
| **Flowcharts and programming** | **use of correct symbols (start, stop, input, output, branch, loop) to construct flowcharts showing solutions to simple control programs** | **use of correct symbols (start, stop, input, output, branch, loop) to construct flowcharts showing solutions to simple control programs, involving time delays, continuous and fixed loops<br>use of suitable commands, including high, low, for...** | |

| | | | |
|---|---|---|---|
| | | **next, if...then, pause, end (or their equivalents) to construct programs to solve simple control problems, involving time delays, contin** | |
| **mechanical systems — rotary, reciprocating, oscillating and linear<br>belt drives and chain drives<br>purpose of a tensioner<br>the use and effects of friction in simple drive systems<br>crank and slider, cam and follower, rack and pinion<br>appropriate British Standard symbols** | | **— rotary, linear, reciprocating and oscillating<br>simple gear train systems, including idler gears (diagrams and conventions for representation)<br>compound gear trains<br>calculation of speed (velocity) ratio of simple and compound gear trains<br>the effects of friction in drive systems<br>appropriate British Standard symbols** | |
| **Pneumatics** | **use of fluid (air) to produce linear movement in single and double acting cylinders<br>standard pneumatic symbols, eg mains air, pilot air, exhaust, tee piece, single and double acting cylinders, 3/2 valve, shuttle valve and actuators (push button, roller, roller trip, plunger, lever, solenoid, spring return and pilot)<br>logic control of pneumatic circuits including OR and AND control circuits<br>relationship between force, pressure and area in single acting cylinders** | **symbols and operation of standard pneumatic components (including restrictor, uni-directional restrictor, reservoir, 5/2 valve and actuators (diaphragm, solenoid)<br>pneumatic time delay circuits<br>calculation of relationships between force, pressure and area in single and double acting cylinders<br>control of speed and force** | |
| **Structures and forces** | **effects of a force<br>concurrent forces, equilibrium<br>use of triangle of forces and free body diagrams** | **examples of effects of a force<br>concurrent forces, equilibrium<br>use of triangle of forces and free body diagrams<br>non-concurrent forces, parallel forces<br>moment of a force<br>calculations involving the principle of moments<br>balance beam, simply supported beam, reaction forces** | |
| **Materials** | **compression, tension, shearing and bending** | **selection of appropriate material for given application,** | |
| **A programmable control system which uses PBASIC, PICAXE BASIC, or Arduino C is suitable. Hardware and free software downloads for Windows, MacOS and Linux are available from Revolution Education.** | | | |
| | | | |

This will consist of short and extended response questions based on a selection of knowledge and skills developed in the Course.
In this part a calculator can be used. The questions should be able to be completed in 40 minutes.
This part should have 29 to 31 marks, some of which should be

| | |
|---|---|
| **Applying algebraic skills to manipulating expressions and working with formulae** | |
| **Using the distributive law in an expression with a numerical common factor to produce a sum of terms** | |
| **Factorising a sum of terms with a numerical common factor** | |
| **Simplifying an expression which has more than one variable** | |
| **Evaluating an expression or a formulae which has more than one variable** | |
| **Extending a straightforward number or diagrammatic pattern and determining its formula** | |
| **Calculating the gradient of a straight line from horizontal and vertical distance** | |
| **Applying geometric skills to circumference, area and volume** | |
| **Calculating the circumference and area of a circle** | |
| **Calculating the area of a parallelogram, kite, trapezium** | |
| **Investigating the surface of a prism** | **EF 1.2.3** |
| **Calculating the volume of a prism** | **EF 1.2.4** |
| **Using rotational symmetry** | **EF 1.2.5** |
| **Applying statistical skills to representing and analysing data and to probability** | |
| **Constructing a frequency table with class intervals from raw data** | |
| **Determining statistics of a data set** | |
| **Interpreting calculated statistics** | |
| **Representing raw data in a pie chart** | |
| **Using probability** | |
| **Applying algebraic skills to linear equations** | |
| **Drawing and recognising a graph of a linear equation** | **R 1.1.1** |
| **Solving linear equations** | **R 1.1.2** |
| **Changing the subject of a formula** | **R 1.1.3** |

| | |
|---|---|
| **Applying geometric skills to sides and angles of shapes** | |
| **Using Pythagoras' theorem** | **R 1.2.1** |
| **Using a fractional scale factor to enlarge or reduce a shape** | **R 1.2.2** |
| **Using parallel lines, symmetry and circle properties to calculate angles** | **R 1.2.3** |

Further mandatory information on Course coverage for the National 4 Mathematics Course

**The following gives details of mandatory skills, knowledge and understanding for the National 4 Mathematics Course. Assessment of this Added Value Unit will involve selecting appropriate skills, knowledge and understanding from those listed below, in line with the Evidence Requirements above. This list of skills, knowledge and understanding also provides the basis for the assessment of all the Units in the Course.**

| **Section A: Mandatory content for Added Value Unit** | |
|---|---|
| **Applying algebraic skills to manipulating expressions and working with formulae** | **Using the distributive law in an expression with a numerical common factor to produce a sum of terms**<br>**Factorising a sum of terms with a numerical common factor**<br>**Simplifying an expression which has more than one variable**<br>**Evaluating an expression or a formulae which has more than one variable**<br>**Extending a straightforward number or diagrammatic pattern and determining its formula**<br>**Calculating the gradient of a straight line from horizontal and vertical distances** |
| **Applying geometric skills to circumference, area and volume** | **Calculating the circumference and area of a circle**<br>**Calculating the area of a parallelogram, kite, trapezium**<br>**Investigating the surface of a prism**<br>**Calculating the volume of a prism**<br>**Using rotational symmetry** |
| **Applying statistical skills to representing and analysing data and to probability** | **Constructing a frequency table with class intervals from raw data**<br>**Determining statistics of a data set**<br>**Interpreting calculated statistics**<br>**Representing raw data in a pie chart**<br>**Using probability** |
| **Applying algebraic skills to linear equations** | **Drawing and recognising a graph of a linear equation**<br>**Solving linear equations**<br>**Changing the subject of a formula** |
| **Applying geometric skills to sides and angles of shapes** | **Using Pythagoras' theorem**<br>**Using a fractional scale factor to enlarge or reduce a shape**<br>**Using parallel lines, symmetry and** |

| | |
|---|---|
| | **circle properties to calculate angles** |
| **Applying trigonometric skills to right-angled triangles** | **Calculating a side in a right-angled triangle**<br>**Calculating an angle in a right-angled triangle** |

**Mathematics: Expressions and Formulae (National 4)**
**Mathematical Operational Skills**
**Applying algebraic skills to manipulating expressions and working with formulae**

| Skill | Explanation |
|---|---|
| **Using the distributive law in an expression with a numerical common factor to produce a sum of terms** | **3(42) x**<br>**5(2) a c** |
| **Factorising a sum of terms with a numerical common factor** | **721 x**<br>**249 y** |
| **Simplifying an expression which has more than one variable** | **346a ba b** |
| **Evaluating an expression or a formulae which has more than one variable** | **Evaluate linear expressions for given integer values**<br>**463wt k** |
| **Extending a straightforward number or diagrammatic pattern and determining its formula** | **Straightforward sequences such as**<br>**4, 7, 10, 13, ...**<br>**Patterns in diagram format**<br>**Evaluate the determined formula for a given variable value** |
| **Calculating the gradient of a straight line from horizontal and vertical distances** | **Vertical distance over horizontal distance** |

**Applying geometric skills to circumference, area and volume**

| Skill | Explanation |
|---|---|
| **Calculating the circumference and area of a circle** | **Given radius or diameter** |
| **Calculating the area of a parallelogram, kite, trapezium** | **Approached as composite shapes, eg by splitting into triangles** |
| **Investigating the surface of a prism** | **know face, vertex, edge**<br>**draw nets**<br>**calculate surface area** |
| **Calculating the volume of a prism** | **Triangular prism, cylinder, other prisms given the area of the base** |
| **Using rotational symmetry** | **With straightforward shapes** |

**Applying algebraic skills to linear equations**

| Skill | Explanation |
|---|---|
| **Drawing and recognising a graph of a linear equation** | **Draw a graph of values for chosen values of x**<br>**For , know the meaning of and y**<br>**mx c m c**<br>**Recognise and use , y a x b** |
| **Solving linear equations** | **ax b c**<br>**ax b cx d** |
| **Changing the subject of a formula** | **Where *a, b, c, d* are integers**<br>**Change the subject of the formulae:**<br>**to G x a x**<br>**to v h n v**<br>**to 3E wk w** |

Administrative information
Published: June 2014 (version 1.2)
Superclass: RB

| History of changes to National Unit Specification Version | Description of change | Authorised by | Date |
|---|---|---|---|
| 1.1 | Typographical error corrected. | Qualifications | June |

| | | | |
|---|---|---|---|
| 1.2 | Additional information included in the 'Evidence Requirements for this Unit' section.<br>Structure and content of 'Further mandatory information on Course coverage' section amended. | Development Manager<br>Qualifications Manager | 2013<br>June 2014 |

**Admninstration docket occurred**
**Historical clearence**

**Conducting the assessment**
The test will be conducted under a high degree of supervision and control.
This will take the form of: supervised, closed book conditions.

**Judging the evidence**
Evidence will be internally marked and verified by centre staff in line with SQA guidelines.
All assessment is subject to quality assurance by SQA.
To be awarded this Unit the learner must demonstrate competence across the test as a whole.

**Re-assessment**
In relation to Unit assessment, SQA's guidance on re-assessment for Units applies.
In this case, for re-assessment purposes, learners will be required to re-sit another

Added Value Unit
Practice Assessments 2014-15

National 4 Added Value Unit Practice Paper A 2014-15
Part 2
You may use a calculator. Show appropriate working.
Time allowed: 20 minutes.
All questions should be attempted.

1. **Solve algebraically the equation $11x + 7 = 5x + 13$** (3)
2. **An earring is made from a square of copper with 5 circles cut out from it.**
**The square has side 3×6 cm and each circle has diameter 0·9 cm.**
**Calculate the area of copper in each earring.**
**(ie the shaded area in the diagram)** (# and 4)
3. **A shelving unit is made by joining side panels and shelves as shown below.**
(a) **Copy and complete the following table.** (1)
**Number of side panels (*P*) 2 3 4 5**
**If there are 50 shelves, how many side panels would be needed?** (# and 1)
**The shelves shown in the**
**diagram have three side panels**
**and ten shelves.**
**3×6cm**
**Ó Pegasys 2014**
4. **Mr. Fit ran the Glasgow Marathon last year. It took him 3 hours and 45 minutes and he**
**ran at an average speed of 7 m.p.h.**
**Calculate the length of the marathon giving your answer to the nearest mile.** (3)
5. **Anne has a tee shirt which has a rectangular motif on it. Strips of sequins run along the diagonals**
**and round the perimeter of the rectangle.**
**Calculate the total length of sequins required for this motif.** (# and 4)
6. **The frame of a child's swing is in the shape of an isosceles triangle.**
**The base of the triangle is 1×8 metres and makes an angle of 64o**
**with the horizontal as shown in the diagram.**

**To be safe the height of the swing should be no more than 1·9 metres.**
**Is this swing safe?** (3 and #)
**15cm**
**9cm**
**1×8 m**
***x* m**
**64o**
**Ó Pegasys 2014**
7. **David has a few tomato plants in his greenhouse. Each week he picks the tomatoes and records the weight of them.**
**The weights are shown here: Week 1 100g Week 5 500g**
**Week 2 250g Week 6 450g**
**Week 3 300g Week 7 575g**
(a) **On the grid below, draw a scattergraph to show this information.** (2)
(b) **Draw a line of best fit through the points on the graph.** (1)
(c) **David didn't weigh the tomatoes on week 4 but estimated that they would have weighed 440g. Do you agree with this?** (R)
**0**
**100**
**Week number**
**Weight (grams)**
**200**
**300**
**400**
**500**
**600**
**700**
**1 2 3 4 5 6 7**
**Ó Pegasys 2014**
8. **Sonia and Kate bought tickets for two different raffles.**
**Raffle one had a total of 300 tickets and Sonia bought 6 of them.**
**Kate had 8 tickets for the other raffle where there were a total of 360 tickets sold.**
**Kate thought she had a better chance of winning than Sonia.**
**Is she correct? Justify your answer.** (2 and R)
*End of part 2 of the Test*

**A bar gate bracelet is designed with 4 chain links between 2 solid bars as show in the diagram**
**below.**
(a) **Complete the table below.** (1)
(b) **Find a formula for calculating the number of chain links (*c*) when you know the number of bars (*b*).** (2)
(c) **How many bars would be in a bracelet which had 64 gold chain links?** (# and 1)
4. **Alisha is a sales rep and travelled from Inverness to Stranraer last week. She left Inverness**
**at 0825 and arrived in Stranraer at 1340.**
**If she travelled at an average speed of 50 m.p.h., how far is it from Inverness to Stranraer?** (4)
**Number of bars (*b*) 2 3 4 5 6 10**
**Number of chains (*c*) 4 8 12**
**□□Pegasys 2014**
5. **Two boys, Shakeel and Chris are playing football.**
**At one point Chris (C) is 30 m due east of Shakeel (S). The ball is at position B.**
**The positions of the 2 boys in relation to the ball are shown in the diagram.**
**Chris is 16 m away from the ball and angle SBC = 90o.**
**Calculate how far Shakeel is away from the ball.**
Give your answer correct to 1 decimal place. (# and 3)
**30 m**
**16 m**
**S C**
**B**
**S C**
**B**
**□□Pegasys 2014**
6**. A skate board launching ramp has a side view as shown below. It is made up of a rectangle and a**

**right angled triangle with longest side 1·5m.**
**To meet regulations the angle marked 'xo' in the diagram should be no more than 25o.**
**Does the skate board launching ramp above meet regulations?** (3 and #)
7. **In a dance competition there were 2 judges. Here are the scores (out of 20) that they gave some competitors.**

| Judge 1 | Judge 2 |
|---|---|
| **4** | **6** |
| **6** | **11** |
| **8** | **14** |
| **12** | **12** |
| **15** | **16** |
| **18** | **19** |

(a) **Draw a scattergraph of these scores on the grid below.** (2)

**0□6 m**
**1□5 m**
***x*o**
**4**
**8**
**12**
**16**
**20**

| Question | Points of Process or Accuracy | Expected responses |
|---|---|---|
| 1 | □□checks lengths<br># Correct conclusion | □□evidence<br># Gordon is correct with reason<br>why other drawing is incorrect |
| 2 | □□Evidence of appropriate addition and subtraction<br>□□Correct addition<br>□□Correct subtraction | 32·4+ 12·7 **–** 39·2<br>□□45·1<br>□□4·9 (km) |
| **For an yes/no answer without any acceptable explanation award 0/2** | | |
| **3** | □□Evidence of appropriate addition and subtraction<br>□□Correct addition<br>□□Correct subtraction | 252 ÷ 7 × 6<br>□□36<br>□□216<br>Correct answer only award 1/3<br>**4**<br># Correct strategy<br>□□Process |
| **Correct answer only award 1/4** | Evidence of division by 7 and multiplication by 6<br>□□Divide by 7 correctly<br>□□Multiply by 6 correctly | # 360 – (18 + 18 + 90 + 162)<br>□□72<br>□□72/360 or equivalent<br>□□1/5 of 225 = 45 |
| | □□Evidence of appropriate division and multiplication<br>□□Correct division<br>□□Correct multiplication | Divide by 10 and multiply by 7 or equivalent<br>□□90<br>□□630<br>Correct answer |
| **Total record**<br>**Transcript value** | | |

| question | Points of Process or Accuracy | Expected responses |
|---|---|---|
| **1. Correct answer only award 1/3** | Correct gathering of $x$ terms<br>□□Correct gathering of number terms<br>□□Correct solution | □□$6x$<br>□□$6x = 6$<br>□□$x = 1$ |
| **2** | Overall strategy<br>□□Finds area of square<br>□□Correct radius for circle<br>□□Finds area of circles<br>□□Shaded area found | Evidence of composite area including finding radius of circle<br>□□$3{\cdot}6 \times 3{\cdot}6 = 12{\cdot}96$<br>□□$r = 0{\cdot}45$cm<br>□□$3{\cdot}17925$cm$^2$ [using 3·14]<br>□□9·78 cm$^2$ [accept any rounding] |
| 3(a)<br>(b)<br>(c) | □□Table completed<br>□□Evidence of multiplier<br>□□Correct formula<br># equate to 50<br>□□Solve | □□5, 15, 95<br>□□Evidence of × 5<br>□□$S = 5P - 5$<br># 5P – 5 = 50<br>□□Number of side panels |
| **4.** | Correct time in hours<br>□□Correct use of formula<br>□□Correct calculation and rounding | 3·75 hours<br>□□7 × 3·75<br>□□26 miles |
| | Correct strategy<br>□□Correct Pythagoras statement<br>□□Correct side<br>□□Length of 2 diagonals<br>□□Total length found | # finds diagonal using Pythagoras' theorem, multiplies<br>then adds 2 lengths and 2 breadths<br>□□$15^2 + 9^2$<br>□□17·5 [any rounding]<br>□□35cm<br>□□35 + 30 + 18 = 83cm |
| | □□tan $x$o<br>□□tan64o = $x$/0·9<br>□□1·85 metres[any rounding]<br># swing safe since 1·85 < 1·9 | |
| | **Points of Process or Accuracy** | **Expected responses** |
| **Correct answer only award 1/3** | □□Evidence of appropriate division and multiplication<br>□□Correct division<br>□□Correct multiplication | □□Divide by 10 and multiply by 4 or equivalent<br>□□750<br>□□4000 |
| | □□Evidence of division by 8 and<br>multiplication by 7<br>□□Divide by 8 correctly<br>□□Multiply by 7 correctly | □□15272 ÷ 8 × 7<br>□□1909<br>□□13363 |
| | □□checks lengths<br># Correct conclusion | □□evidence<br># Cooper is correct as each line<br>in Shape B is 3/2 times longer than in shape A. |
| | Evidence of appropriate addition and subtraction<br>□□Correct addition<br>□□Correct subtraction | □□14·5 + 1·32 – 0·95<br>□□15·82<br>□□14·87(litres) |
| | □□Correct gathering of $x$ terms<br>□□Correct gathering of number terms<br>□□Correct solution | □□$7x$<br>□□$7x = 28$<br>□□$x = 4$ |

| | | |
|---|---|---|
| **Correct answer only award 1/4 (operational mark)** | # Overall strategy<br>□□Finds area of squares<br>□□Correct radius for circle<br>□□Finds area of two circles<br>□□Total area found | # Evidence of composite area including finding radius of SC<br>□□8 × 8 × 5 = 320<br>□□$r = 4$<br>□□3·14 × $4^2$ × 2 = 100·48<br>□□420·48 $cm^2$ [accept any rounding] |
| | □□Table completed<br>□□Evidence of multiplier<br>□□Correct formula<br># equate to 64<br>□□Solve | □□16, 20, 36<br>□□Evidence of × 4<br>□□$c = 4b - 4$<br># 64 = 4$b$ – |
| | □□Correct time interval<br>□□Correct time conversion<br>□□Uses correct formula<br>□□Answer | □□5 hours 15 minutes<br>□□5·25hrs<br>□□50 × 5·25<br>□□262·5 miles |
| | Right – angled strategy<br>□□Correct Pythagoras statement<br>□□Correct length<br>□□Correct rounding | know to use Pythagoras' theorem<br>□□$30^2 - 16^2$<br>□□25·3771….<br>□□23·4 m |
| | □□Know to use sine ratio □□sin $x$o<br>□□Pegasys 2014<br>□□State correct ratio<br>□□Calculate angle<br># valid conclusion with reason | □□sin $x$o = 0·6/1·5<br>□□23·6o [accept any rounding]<br># Meets regs since 23·6 < 25 |
| **Correct answer only award 0/2 and #0/1** | □□4 points plotted on grid<br>□□Further 2 points plotted on grid<br>□□Line of best fit drawn<br># correct conclusion<br><br>□□Probability for first class<br>□□Probability from bag 2<br># correct conclusion with reason | □□Points plotted correctly<br>□□Points plotted correctly<br>□□Acceptable line drawn<br># conclusion must be valid for line of best fit drawn<br><br>P = 18/24 = 3/4 (0·75)<br>□□P = 21/30 = 7/10 (0·7)<br># Tristan is not correct since 0·75 > 0·7 [accept any valid explanation] |
| **Record total**<br>**Evidence**<br>**Investigation , analyse transcript** | | |
| | | |

**Standards**
**Outcomes and assessment standards**
**Outcome 1**
The learner will:
**1 Apply mathematical skills in straightforward contexts by:**
1.1 Using operational and reasoning skills to determine solutions in mathematical or real-life situations
**National 4 and National 5**
This table shows the relationship between the mandatory National 4 and National 5 knowledge and understanding. This table may be useful for:
 designing and planning learning activities for mixed

**Evidence Requirements for the Unit**
This Unit will be assessed through controlled assessment which meets the Evidence Requirements below.
The assessment method for this Unit will be a test in which the learner will have opportunities to demonstrate skills acquired in the Course and use skills in a wider range of situations and

sometimes in integrated ways. The knowledge and skills to be tested are selected from within the Course.
The test is:
Formal Technical College Instructional Programmes in the RSA, Report 191 (2001/08) Part 1 (N1-N3);
• Formal Technical College Instructional Programmes in the RSA, Report 191 (2001/08) Part 2 (N4-N6 and National N-Diplomas);
• Norms and standards for instructional programmes and the examination and certification thereof in technical college education, Report 190 (2000/03)

Number and spread of assessment tasks constituting the ICASS
Trimester Mark across Report 191 trimester subjects (Engineering Studies)

| SUBJECTS | WEEK 2 - 4 | WEEK 5 - 8 | TOTAL | |
|---|---|---|---|---|
| **Trimester subjects (46 - 49 Lecturing Days)**<br><br>**Natural Sciences – Engineering Studies** | TEST 1 | TEST2 | TEST2 | |
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Number and spread of assessment tasks constituting the ICASS
Semester Mark across Report 191 semester subjects (General, Business and

| SUBJECTS | TERM1 | TERM2 | TOTAL | |
|---|---|---|---|---|
| **Semester subjects (75-78 Lecturing Days)**<br><br>**N4 - N6 General – Business and Services Studies** | 1 Test or 1 Assignmen | 1 Test or 1 Assignment, external moderation incorporated in and<br>1 Internal Examination | 1 Test<br>1 Assignment<br>1 Internal Exam<br><br>(3 tasks) | |
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-3 = not yet competent = competency level 1
4-5 = competent = competency level 2

6-8 = highly competent = competency level 3
9-10 = excellent = competency level 4

| Level of competency | 4 Excellent | 3 Highly competent | 2 Competent | 1 Not yet competent | |
|---|---|---|---|---|---|
| MARK ALLOCATION | 9-10 | | | | |
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ANALYSIS GRID
This analysis must be done for ALL tests and must be submitted for pre-assessment moderation

| SUBJECT & LEVEL: | LECTURE |
|---|---|
| TASK MODERATOR | |

| Subject Aim/Learning Objective (LO) (Numbering only) | Question No | FORMAT TYPRE | SHORT RESPONSE | MEDUIM RESPONS | EXTEND RESPONSE | MARK ALLOCATION COGNITIVE LEVEL | | | TOTAL MARK |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | KWNOLDGE/ ANALYSE | APPLICATION PROBAT | |
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| MARK TOTAL | | | | | | | | | |

se (multiple-choice, one-word, definitions, bulleted list, etc.)
**Medium Response (short explanations / descriptions requiring a couple of sentences)
***Extended Response (long explanations descriptions requiring several or more sentences)

PRE-ASSESSMENT MODERATION PROCESS
NB: The term “examiner “refers to the lecturer who is responsible for setting a test/assessment task.
PRE-ASSESSEMENT MODERATION PROCESS AND TIMELINES

| PROCESS | RESPONSIBILITY | TIME LINE | |
|---|---|---|---|
| **Allocate specific examiners and moderators names, per subject per level, to each assessment on the Assessment plans. The examiner and moderator must be two different persons.**<br>**(Note: Examiners and moderators must be subject experts. The allocated examiners and moderators must be teaching the subject and level. Empower all staff to develop and moderate) assessments)**<br>**HOD / Senior lecturer**<br>**Before classes commence for trimester/semester programmes**<br>**Add internal college due dates to manage the time lines in order to meet the Subject committee assessment plan deadlines.**<br>**HOD / Senior lecturer Before classes commence for trimester/semester programmes**<br>**Managing of the due dates on the Subject committee Assessment plan.**<br>**HOD / Senior lecturer**<br>**Throughout the academic period**<br>**Moderation of assessments tasks and tools (Pre-moderation of tests, assignments, pre-exam tests, etc.):**<br>**• Check that the examiner completed the ‘Examiner’s and Moderator’s checklist’:**<br>**- Technical criteria**<br>**- Content coverage**<br>**- Cognitive skills**<br>**- Types of questions**<br>**- Language and bias**<br>**- Overall impression**<br>**- Assessment tool**<br>**• Start by going through the entire assessment task and tool**<br>**• Determine whether the students will be able to complete the assessment within the given time**<br>**• Moderator must also complete the moderator’s section on the ‘Examiner’s and moderator’s checklist’**<br>**• Moderator must give feedback regarding changes needed and make recommendations on checklist**<br>**• Keep all evidence of the moderation process** | HOD SEIGNOR LECTURE | | |
| **Feedback to examiner**<br><br>**Subject Moderator as allocated on** | | | |

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| **internal assessment plan Within TWO days after receiving the assessment task and tool Implement changes as recommended by the moderator Subject examiner as allocated on internal assessment plan Within TWO days after receiving feedback on the assessment task and tool. Final approval of the assessment instrument for printing: • Print final approved assessment task and tool (Note: Check layout, fonts and alignment before submitting for printing** | | | |
| **oderate 10% or a minimum of 5 written assessments • Moderators should familiarise themselves with the assessment • The marked scripts selected for moderation should reflect best, medium and poor performance. • Moderators should use a green pen only. • Moderators should re-mark the entire script and also show all √ as indicated on the assessment tool. Subject Moderator (Subject expert: empower all staff ! peer moderation) Within 2 days after the marked assessments were handed to the moderator Feedback to marker: • Keep all evidence of the moderation process (E.g. 55 % / 66 %) Subject Moderator Within 2 days after the marked assessments were handed to the moderator Re-marking is strongly advised in the following instances: • If the variance between the marker's and moderator's marks is greater than 5% for more than half of the moderated scripts. (Note: A remark of the entire batch is advised if the variance is applicable to more than half of the sample moderated) • If the variance between the marker's and moderator's marks is the result of incorrect marking. (Note: Sections/specific question/s indicated by the moderator of the entire batch must be remarked.) Examples of incorrect marking: Awarding marks for incorrect answers Not awarding marks for correct answers Not marking alternative correct answers Incorrect allocation of marks • • o Inconsistent mark allocation for similar answers Marker Within 2 days after feedback was received from the moderator If re-marking was advised, 10 % of the entire batch should be moderated again on completion of re-marking. Subject Moderator Within 2 days after re-marking Errors in the adding of marks made by the marker: • Add and check totals of all scripts again (Note: If for example, an adding error was made by the marker, the student must be given the correct (moderated) mark. The moderator should determine whether the error was restricted to** | | | |

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| **the one script only. The moderator should moderate one or two additional scripts)**<br><br>**Marker**<br>**Hand assessments back to students**<br>**• The converted mark must be indicated on the marked task, e.g. 60/100 = 60% = 45/75.**<br>**Lecturer First contact session with students**<br>**Capturing of marks on IT system:**<br>**After the moderation is completed the lecturer's (red pen) marks must be captured on the IT system.**<br>**(Note: All students must benefit from the moderation and not only the sample of scripts moderated. The aim of moderation is to ensure consistency in the marking process)**<br>**Corrections should be done (Note: As part of remedial work the lecturer should go through the task with the students)**<br>**Lecturer**<br>**Lecturer**<br>**Refer to college policy**<br>**First contact** | | | |
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PRE-ASSESSMENT MODERATION CHECKLIST
LECTURER: _____ MODERATOR: _____
SUBJECT: _____ ASSESSMENT TASK: _____
THIS CHECKLIST SHOULD BE COMPLETED BY THE LECTURER AND MODERATOR
(Lecturer to forward checklist WITH the assessment task to the moderator)

CRITERION 1: ANALYSIS OF TASK
(accompanying the assessment task)

| **CRTERIA** | | **EXAMINATOR** | **MODERATOR** |
|---|---|---|---|
| **ANALYSE GRID** | | YES/NO | YES /NO |
| **Name of subject, task, lecturer and moderator is provided**<br>**1.2 Subject aims/learning objectives are listed**<br>**1.3 Conceptual level indicated per question/ instruction along with mark allocation**<br>**1.4 Spread of conceptual weighting indicated for the task as a whole**<br><br>**CRITERION 2: TECHNICAL CRITERIA**<br>**CRITERIA Examiner Moderator**<br>**TASK**<br>**Yes/No/**<br>**N/a**<br><br>**Yes/No/**<br>**N/a**<br><br>**2.1 Cover page: Name of subject, time allocation and mark allocation**<br>**2.2 Instructions to students are clearly specified and unambiguous**<br>**2.3 Layout is reader friendly**<br>**2.4 The questions on the paper/assessment task have the correct numbering**<br>**2.5 Pages are numbered**<br>**2.6 Appropriate fonts are used throughout the paper**<br>**2.7 Format is correct (check page breaks, spacing etc.)**<br>**2.8 Mark allocations are clearly indicated (Marks per question / instruction, after** | | | |

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| **each sub section, marks added and totals are correct)**<br><br>**2.9 The paper can be completed in the time allocated**<br>**2.10 Formula sheet / Answer sheets / Addenda attached where relevant**<br>**2.11 Drawings – Clear and complete (With mark allocation) where relevant**<br>**2.12 The quality of illustrations, graphs, tables etc is clear and print ready**<br>**2.13 List of materials required to complete the task is provided where relevant**<br>**2.14 A clear indication is provided of the evidence that needs to be produced during and/or on completion of the task (e.g. artefact, computer printout, activity sheet, written response, etc).**<br><br>**2.15 The task is cost-effective**<br><br>**27 Department of Higher Education and Training**<br><br>**CRITERION 3: CONTENT COVERAGE**<br>**CRITERIA Yes/No/ N/a**<br><br>**Yes/No/ N/a**<br><br>**3.1 The task covers Learning Objectives as prescribed in the policy documents for the particular subject and**<br><br>**3.2 The weighting and spread of content of Learning Objectives covered is appropriate**<br><br>**3.3 The examples and illustrations are suitable, appropriate, relevant and academically correct**<br><br>**3.4 The task allows for creative responses from students where relevant**<br>**3.5 The content addressed is relevant and up to date with developments in the subject**<br><br>**CRITERION 4: COGNITIVE SKILLS**<br>**CRITERIA Yes/No/ N/a**<br><br>**Yes/No/ N/a**<br>**4.1 There is an appropriate distribution in terms of cognitive levels (Bloom's taxonomy or any other taxonomy that may have been used).**<br><br>**4.2 Choice questions are of an equal level of difficulty where relevant.**<br>**4.3 There is a correct distribution of marks across Learning Objectives**<br>**4.4 Sub-questions / sub-tasks range from simple to complex**<br>**CRITERION 5: TYPES OF QUESTIONS / TASKS**<br>**CRITERIA Yes/No/ N/a**<br><br>**Yes/No/ N/a** | | | |

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| **5.1 There is an appropriate distribution in the types of questions / tasks.**<br>**5.2 The task is according to the requirements of the subject syllabus**<br>**5.3 The type of task is authentic to the content being assessed**<br>**5.4 There is a correlation between mark allocation, level of difficulty and time allocation**<br><br>**CRITERION 6: LANGUAGE AND BIAS**<br>**CRITERIA Yes/No/ N/a**<br><br>**Yes/No/ N/a**<br>**6.1 Subject terminology is used correctly.**<br>**6.2 The language is appropriate and unambiguous for the level of the candidate.**<br>**6.3 The task does not have any evidence of bias in terms of gender issues, race, cultural issues, and provincial and regional bias.**<br><br>**6.4 Passages / scenarios used in the task are of appropriate length.**<br>**CRITERION 7: OVERALL IMPRESSION**<br><br>**CRITERIA Yes/No/ N/a**<br><br>**Yes/No/ N/a**<br>**7.1 The task is of the appropriate standard. It compares favourably in relation to previous tasks.**<br><br>**7.2 There is a balance between the assessment of skills, knowledge and values where applicable.**<br><br>**7.3 The task is in line with the relevant current policy documents.**<br><br>**28 Department of Higher Education and Training**<br><br>**CRITERION 8: ASSESSMENT TOOL**<br>**CRITERIA Yes/No/ N/a**<br><br>**Yes/No/ N/a**<br>**8.1 Cover page: Name of subject, time allocation and mark allocation**<br>**8.2 The assessment tool is appropriate for the type of assessment task being assessed.**<br><br>**8.3 Format (Alignment, check page breaks, spacing) is correct**<br>**8.4 The assessment tool is laid out clearly and is neatly typed**<br>**8.5 Clear mark allocation is provided per question / instruction**<br>**8.6 The assessment tool facilitates marking – clear guidance is provided on how to allocate marks allocate**<br><br>**8.7 Mark allocation corresponds with marks on the assessment task**<br>**8.8 The assessment tool makes allowance for** | | | |

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| **alternative responses where relevant**<br><br>**8.9 Drawings are clear and complete with accompanying mark allocation where relevant**<br><br>**8.10 The assessment tool is accurate**<br>**8.11 Total number of marks is indicated per section and for the task as a whole**<br>**8.12 Assessment tool was printed and checked before pre-assessmen** | | | |
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POST-ASSESSMENT MODERATION CHECKLIST
LECTURER:_____MODERATOR: _____

SUBJECT: _____ ASSESSMENT TASK: _____
DETAIL OF MODERATION

Number of students assessed
Number of answers sheets/scripts/assignments moderated
ID Numbers and names of students whose scripts/assignments were moderated

| | | **Assessed Mark Moderated Mark** | **Assessed Mark Moderated Mark** | |
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| **CRITERIA** | | | |
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| **Students were not advantaged/disadvantaged in either/or questions (choice questions)**<br><br>**2. Alternative answers have been accommodated where relevant and credited where applicable.**<br><br>**3. All responses have been marked.**<br>**4. Responses have been assessed and allocated marks in accordance with the assessment tool.** | | | |

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| **5. The marks for the particular task have been totaled correctly.**<br>**6. The total mark achieved for the particular task has been converted to the correct weighting.**<br>**7. The weighted total mark achieved for the task has been correctly recorded on the record sheet.**<br>**8. The lecturer was consistent in the assessment of students in the task.** | | | |
| **hecklist for the contents of the Lecturer Subject and Assessment Files**<br>**ITEM YES NO**<br>**a)**<br>**Is the lecturer's information available? (Name, ID no ., qualifications, SACE registration, teaching/lecturing experience, workplace experience, appointment and duties.**<br>**b) •**<br>**Does the Subject File contain the following:**<br>**1 Contents page**<br>**2 Class registers**<br>**3 Subject syllabus**<br>**4 Subject work schedule/ work plan / pace setter**<br>**5 Lesson plans and teaching resources**<br>**6 Evidence of additional supporting tasks as required by college academic policy**<br>**7 Evidence of review – diagnostic and statistical analysis, including notes on improvement of the task for future use**<br>**8 Previous question papers / revision exercises / additional exercises /homework activities / work sheets / tutorials**<br>**9 Minutes of subject meetings**<br>**c) Are the documents in the file up to date and related to subject content?**<br>**ITEM YES NO**<br>**d) •**<br>**Does the Assessment File contain the following:**<br>**1 Contents page**<br>**2 Assessment schedules**<br>**3 The assessment instruments and tools (the tests, assignments, internal exam) examination papers and accompanying memoranda, marking guidelines, rubrics and checklists, whichever is applicable)**<br>**4 Evidence of pre-assessment moderation (approval of the tasks)**<br>**5 Evidence of post-assessment moderation (of 10% of the tasks)** | | | |

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| **6 Mark sheets for all groups of students (handwritten or printed)**<br><br>**7 Moderation reports and checklists.**<br>**8 Evidence of verification of marks captured on the electronic system (electronic system print-outs)**<br><br>**e)**<br>**Are the documents in the file up to date and arranged in chronological order per trimester/semester/year as well as per subject and/or per levels for all the subjects taught and for all levels and class groups?**<br><br>**Checklist for the student's Assessment Evidence**<br>**ITEM YES NO**<br>**f) Are the students' marked assessment evidence (scripts, artifacts, etc.) available?**<br><br>**g) Is there evidence of post-assessment moderation?**<br>**NOTE: Where tasks cannot be contained as evidence in the Student A** | | | |
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COMPOSITE PRE- AND POST MODERATION REPORT

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| **ubject:**<br>**Level:**<br>**Campus(es):**<br>**HOD/programme manager:**<br>**Total number of students enrolled:**<br>**Total number of students assessed:**<br>**Drop-out rate**<br>**Total number of students who passed all assessments for this period:**<br><br>**Throughput rate**<br>**Pass rate**<br>**Total number of assessments conducted and moderated:**<br>**Number of assessments conducted for this period expressed as a percentage of the total planned assessments for this subje** | | |
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ANNEXURE G5: COMPOSITE PRE- AND POST MODERATION REPORT
TERM 1 / 2 / 3 / 4
Subject:
Level:
Campus(es):
HOD/programme manager:
Total number of students enrolled:
Total number of students assessed:
Drop-out rate
Total number of students who passed all assessments for this

period:

Throughput rate
Pass rate
Total number of assessments conducted and moderated:
Number of assessments conducted for this period expressed as a percentage of the total planned assessments for this subject:

Please complete the checklist below for compliance to pre- and post assessment requirements

TEMPLATE OF ICASS IRREGULARITY REGISTER

| **NAME OF COLLEGE**<br>**EXAM CYCLE & YEAR** |
|---|
| |

| **DATE** | **CENTRE NAME** | **CENTRE NO** | **ID** | **OFFERING SUBJECT** | **LEVEL** | **ICASS TASK** | **MARK SHEET** | **CATEGORY IRREGULARITY** |
|---|---|---|---|---|---|---|---|---|
| **/ ACTION TAKE** | | | | | | | | |
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TRIMESTER SUBJECT ASSESSMENT PLAN

| **Subject Name** | | | | **TRIMESTER** | | | | |
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| | Assess-ment task | Assessment tool | Content coverage | Duration and mark allocation | Lecturer | Moderator | Submission date for pre-assessment moderation | Asse s-ment date | Completion date of post-moderation |
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ontent coverage and weighting must be in accordance with the subject syllabi.
ϖ Duration and mark allocation must be in accordance with the subject syllabi and external examination paper/s.
ϖ Assessment dates will be informed by the TVET College academic calendar for that academic yea

TRIMESTER ASSESSMENT SCHEDULE FOR STUDENTS

| **Subject** | | | | |
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| **N** | Assessment Task | Assessment tool | Content Coverage | Duration and mark allocation | Assessment date |
|---|---|---|---|---|---|
| **1** | Test 1 | Marking memorandum | | | |
| **2** | Test2 | Marking memorandum | | | |
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T3: TRIMESTER ASSESSMENT TASKS FOR NATURAL SCIENCES - ENGINEERING STUDIES/ electrical

| **Tasks** | **Time-frame** | **Type of Assessment Activity (the duration and proposed mark allocation can be increased but not reduced)** | **Scope of Assessment** | **% Contribution to the ICASS Trimester mark** | |
|---|---|---|---|---|---|
| **1** | Week 2-4 | Test 1<br>The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration | At least the first 30% of the syllabus content must be covered in Test 1 | 30% | |
| **2** | Week 5-8 | est 2<br>The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration. Preferably a longer test because of its weight contribution in to the ICASS | At least 75 - 80% of the syllabus content must be covered in Test 2 | 70% | |
| **mark** | | | | 100% | |
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RECORD SHEET FOR TRIMESTER COURSES - ENGINEERING STUDIES

Electrical

| **SUBJECT: .....** | | | | | |
|---|---|---|---|---|---|
| **YEAR: .....TRIMESTER:.....**<br>**LECTURER:** | | | CASS MARK TASKS | | FINAL ICASS MARK |
| **ICASS TRIMESTER MARK SHEET** | | | TEST 1/EST 2 | | |
| **No** | Student ID number | Student Surname & Initials | Convert the mark to weighted % | | Total 100 % |
| **1** | | | 30% | 70% | |
| **2** | | | | | |

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| **3** | | | | |
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SEMESTER SUBJECT ASSESSMENT PLAN

TRIMESTER SUBJECT ASSESSMENT PLAN

| **Subject Name** | | | | | **Semeste** | | | |
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| | Assess-ment task | Assessment tool | Content coverage | Duration and mark allocation | Lecturer | Moderator | Submission date for pre-assessment moderation | Asse s-ment date | Completion date of post-moderation |
|---|---|---|---|---|---|---|---|---|---|
| **1** | Test or Assignment | Marking memo or Rubric | | | | | | | |
| **2** | Test or Assignment | Marking memo or Rubric | | | | | | | |
| **3** | Internal examination | Marking memo | | | | | | | |
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Semester ASSESSMENT SCHEDULE FOR STUDENTS

| **Subject** | | | | |
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| **N** | Assessment Task | Assessment tool | Content Coverage | Duration and mark allocation | Assessment date |
|---|---|---|---|---|---|
| **1** | assignment | Marking memorandum | 80% of the practical component of the subject | | |
| **2** | Test2 | Marking memorandum | 50% of the syllabus | | |
| | Internal Examination | | 70-80% of the syllabus | | |
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Test = 50% of syllabus
ϖ Assignment = 80% of the practical component of the subject
ϖ Internal exam = 70-80% of the syllabus us with a minimum duration of 1 ½ hours
ϖ The test and assignment can be swapped around.
ϖ Some subjects have very specific promotion requirements that may deviate from this general template. In such cases the prescriptions in the syllabus super cedes
this general template

T3semester ASSESSMENT TASKS FOR NATURAL SCIENCES - ENGINEERING STUDIES/ electrical

| **Tasks** | **Time-frame** | **Type of Assessment Activity (the duration and proposed mark** | **Scope of Assessment** | **% Contribution to the ICASS** | |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| | | **allocation can be increased but not reduced)** | | **Trimester mark** | |
| **1** | Week 2-4 | Test 1<br>The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration | At least the first 30% of the syllabus content must be covered in Test 1 | 30% | |
| **2** | Week 5-8 | est 2<br>The duration and marks should align with the external examination paper/s, e.g. if the examination paper counts 100 marks for 3 hours, then the test should count 30-35 marks for 1 hour duration. Preferably a longer test because of its weight contribution in to the ICASS | At least 75 - 80% of the syllabus content must be covered in Test 2 | 70% | |
| **mark** | | | | 100% | |
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RUBRIC FOR THE ASSESSMENT OF A PRACTICAL TASK (BUSINESS STUDIES)

RUBRIC FOR ASSESSMENT OF PREPARATION OF A FUNCTION ROOM

| **Assessment Criteria** | **Level 4: Outstanding** | **Level 3: Highly Competent** | **Level 2: Competent** | **Level 1: Not Yet Competent** | **Student's Mark** |
|---|---|---|---|---|---|
| **TASK 1 Stocktaking** | All the stock and storage requirements for the task | Most of the stock and storage requirements | Some of the stock and storage requirements | Limited or none of the stock and storage requirements | |

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|---|---|---|---|---|---|
| | are correctly attended to. (13 - 15 marks) | for the task are correctly attended to. (10-12 marks) | for the task are correctly attended to. (6-9 marks | for the task are attended to. (0-5 marks) | |
| **TASK 2 Application of health, hygiene and safety practices.** | The student is dressed correctly; hair, nails and hands are clean and neat. (4-5 marks) | The student is mostly dressed correctly; hair, nails and hands are clean and neat. (3 marks) | ome of the stock and storage requirements for the task are correctly attended to. (6-9 marks) | The student is not dressed correctly; hair, nails and hands are clean and neat. (2 marks) | |
| **TASK 3 Setting up a function room** | Setting up done sequentially and correctly as per the task and standard requirements. (7-8 marks) | Most of the setting up is done sequentially and correctly as per the task and standard requirements. (5-6 marks) | Some of the setting up is done sequentially and correctly as per the task and standard requirements. (4 marks) | Limited or no setting up process is followed or correctly done as per the task and standard requirements. (0-3 marks) | |
| **TASK 4 Efficient time management** | Correct time management and consistent organisation for completion of the task (6-7 marks) | Correct time management and organisation allocated mostly for completion of the task ( 4-5 marks) | struggle to manage time and limited organisation to complete the task (3 marks) | Poor or no time management and organisation (0-2 marks) | |
| **Total mark** | | | | | |
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SUPPORTING CHECKLIST FOR RUBRIC
CHECKLIST FOR PREPARATION OF A FUNCTION ROOM

| **task** | **Criteria** | **Possible weight** | |
|---|---|---|---|
| | Stocktaking before setting up the function room.<br>1.1 Take stock of drinks<br>• Count quantities.<br>• Check for breakages.<br>• Check packaging.<br>• Check whether requisitions were met as per requisition and order forms.<br><br>4<br>1.2 Store drinks correctly<br>Refrigerator and dry store.<br>3<br>1.3 Take stock of materials, furniture, linen and equipment.<br>• Tables and chairs.<br>• Table cloths, overlays, silence cloths and napkins.<br>• Crockery and cutlery.<br>4<br>1.4 Store materials, furniture, linen and equipment correctly.<br>• Correct stacking of crockery and cutlery.<br>• Correct stacking of table cloths, overlays, silence cloths and napkins.<br>• Storeroom clean and neat, easy to find utensils, materials and equipment | 4<br><br>3<br><br>4 | |
| | application of health, hygiene and safety practices.<br>2.1 White shirt, black skirt/trousers and black safety shoes. 1<br>2.2 Apron and name tag. 1<br>2.3 Clean and neat nails. 1<br>2.4 Hair neat and tied back. 1<br>2.5 Wash hands before the commencement of the practical. 1 | | |

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|---|---|---|---|
| | Sub Total for Task 2 5<br>3 Setting of the front of the room according to the needs of the meeting.<br>• Lectern<br>• Data projector<br>• Microphone<br>• Panel seating in the front of the room for later in the meeting<br>• Room environmental control<br>• Neatness<br>8<br><br>Sub Total for Task 3 8<br>4 Student's efficient time management.<br>4.1 Prompt arrival for the practical. 1<br>4.2 Completes the task in the set time. 1<br>4.3 Exhibits organisational skills in completing the task. 5<br>Sub Total for Task 4 7<br>Total | | |
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RECORD SHEET FOR TRIMESTER COURSES - ENGINEERING STUDIES

Electrical

| **SUBJECT: .....** | | | | |
|---|---|---|---|---|
| **YEAR: .....semmester :.....**<br>**LECTURER:** | | | CASS MARK<br>TASKS | FINAL<br>ICASS<br>MARK |
| **ICASS TRIMESTER MARK SHEET** | | | TEST 1/EST 2 | |
| **No** | Student ID number | Student Surname & Initials | Convert the mark to<br><br>weighted % | Total<br>100 % |
| | | | 30% 70% | |
| **1** | | | | |
| **2** | | | | |
| **3** | | | | |
| **4** | | | | |
| **5** | | | | |
| **6** | | | | |
| **7** | | | | |
| **8** | | | | |
| **9** | | | | |
| **1110** | | | | |
| **12** | | | | |
| **13** | | | | |

| **ASSESSMENT N1,2,3,4,5,6 ENGINEERING ELECTRICAL ENTRY OUTCOM SUBJECT :** | |
|---|---|
| **- 2 -**<br>**. General**<br>**Aims ..... -**<br>**3 -**<br>**2. Specific**<br>**Aims .....**<br>**3**<br>**3. Pre-**<br>**requisite .....**<br>**..... 3**<br>**4.** | |

**Duration..... ..... 3**
**5. Evaluation ..... ..... - 4 -**
**6. Learning content ..... - 5 -**
**7. Mark allocation in the examination as an indication of the weighting of the different modules..... ..... - 5 -**
**Module 1: Principles of Electricity ..... - 6 -**
**Module 2: Direct Current (DC) Machines ..... 9**
**Module 3: Alternating- Current (AC) Theory ..... 11**
**Module 4: Transformer ..... ..... 13**
**Module 5: Alternating Current (AC) Machines ..... 14**
**Module 6: Generation and Supply of Alternating Current (AC) Power ..... 15**
**Module 7: Measuring instruments .**

**Introduction to the application of technological principles such as design procedures; and**
**♣ The relationship between Electro technology and other scientific subjects.**
**3. Pre-requisite Student must meet at least one of the following requirements. 3.1 Completed National N3 certificate with Electro technology N3 or Electrical Trade Theory N3. 3.2 Passed grade 12 with at least level 4 (50% or D symbol) in Mathematics and Natural Science or Electrical subjects. 3.3 Completed NCV level 4 in any engineering programme. 3.4 Passed senior certificate for adult learners with at least level 4 (50% or D symbol) in Mathematics and Physical Science.**
**4. Duration**
**Full-time: 7.5 hours per week. This instructional offering may also be offered part-time.**
**- 4 -**

**5. Evaluation**
**5.1 Evaluation is conducted continuously by means of two formal tests at College level. Learner must obtain a minimum ICASS mark of at least 40% in order to qualify to write the final examination and a mark will be calculated together in a ratio of 40:60 to derive the promotion mark. The learner must obtain at least 40% on the final examination. The promotion mark will be calculated as follows: Promotion Mark = 40% of (ICASS mark) + 60% of (Exam mark) 5.2 The examination in Electrotechnics N4 (Engineering Studies - Report 191) will be conducted as follows: Modules 1 to 7 MARKS: 100 DURATION: 3 HOURS CLOSED BOOK: Formula sheet is attached to the question paper Scientific calculators allowed No programmable calculators allowed No references allowed. No external examination papers or memoranda allowed**

| Knowledge and Understanding | Applying | Analysing / Synthesis and Evaluating | | | |
|---|---|---|---|---|---|
| 30 – 40 | 30 – 40 | 20 – 25 | | | |
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**Mark allocation in the examination as an indication of the weighting of the different modules**

| MODULES | WEIGHTING |
|---|---|
| **Principles of Electricity** | **30** |
| **2. DC-machines** | |
| **3. AC-Theory** | **20** |
| **4. Transformers** | |
| **5. AC-machines** | **20** |
| **6. Generation and supply of AC-Power** | |
| **7. Measuring Instruments** | **10** |
| **TOTAL** | **10** |
| | **5** |
| | **5** |
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**LEARNING CONTENT / LEARN EXPLAIN MODULES POE/ SUBMISSION**

**-TOPIC LEARN ACTIVITY / EVIDENCE LEARN :**

**POLICY**

**IRREGULARITIES**

An irregularity is any event, act or omission, or any alleged event, which may undermine or threaten to undermine the integrity, credibility, security or the fairness of the examination processes.

Students could forfeit their results and be suspended from writing examinations for a period of 11 months, should they contravene any of the examination instructions (as per National admission permit and/or Examination Instruction

SECTION A: PURPOSE OF THE SUBJECT ASSESSMENT GUIDELINES SECTION B: ASSESSMENT IN THE NATIONAL CERTIFICATES (VOCATIONAL) 1 Assessment in the National Certificates (Vocational) 2 Assessment framework for vocational qualifications
2.1 Internal continuous assessment (ICASS) 2.2 External summative assessment (ESASS)
3 Moderation of assessment
3.1 Internal moderation 3.2 External moderation
4 Period of validity of internal continuous assessment (ICASS) 5 Assessor requirements 6 Types of assessment

6.1 Baseline assessment 6.2 Diagnostic assessment 6.3 Formative assessment 6.4 Summative assessment
7 Planning assessment
7.1 Collecting evidence 7.2 Recording 7.3 Reporting

8 Methods of assessment 9 Instruments and tools for collecting evidence 10 Tools for assessing student performance 11 Selecting and/or designing recording and reporting systems 12 Competence descriptions 13 Strategies for collecting evidence
13.1 Record sheets 13.2 Checklists
SECTION C: ASSESSMENT IN APPLIED POLICING - LEVEL 4 1 Schedule of assessment 2 Recording and reporting 3 Internal assessment of Subject Outcomes in Applied Policing - Level 4 4 Specifications for the external assessment in Applied Policing - Level 2
4.1 Integrated summative assessment task (ISAT) 4.2 National examinatio

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| **Integration**<br>**To adopt a unified approach to education and training that will strengthen the human resources development**<br>**capacity of the nation.**<br>**• Relevance**<br>**To be dynamic and responsive to national development needs.**<br>**• Credibility**<br>**To demonstrate national and international value and recognition of qualification and acquired competencies**<br>**and skills.**<br>**• Coherence**<br>**To work within a consistent framework of principles and certification.**<br>**• Flexibility**<br>**To allow for creativity and resourcefulness when achieving Learning Outcomes, to cater for different learning**<br>**styles and use a range of assessment methods, instruments and techniques.**<br>**• Participation**<br>**To enable stakeholders to participate in setting standards and co-ordinating the achievement of the**<br>**qualification.**<br>**• Access**<br>**To address barriers to learning at each level to facilitate students' progress.**<br>**Applied Policing**<br>**National Certificates (Vocational) Department of Education 3**<br>**• Progression**<br>**To ensure that the qualification framework permits individuals to move through the levels of the national**<br>**qualification via different, appropriate combinations of the components of the delivery system.**<br>**• Portability**<br>**To enable students to transfer credits of qualifications from one learning institution and/or employer to**<br>**another institution or employer.**<br>**• Articulation**<br>**To allow for vertical and horizontal mobility in the education system when accredited pre-requisites have**<br>**been successfully completed.**<br>**• Recognition of Prior Learning**<br>**To grant credits for a unit of learning following an assessment or if a student possesses the capabilities**<br>**specified in the outcomes statement.**<br>**• Validity of assessments**<br>**To ensure assessment covers a broad range of knowledge, skills, values and attitudes (SKVAs) needed to**<br>**demonstrate applied competency. This is achieved through:**<br>**♣ clearly stating the outcome to be assessed;**<br>**♣ selecting the appropriate or suitable evidence;**<br>**♣ matching the evidence with a compatible or appropriate method of assessment; and**<br>**♣ selecting and constructing an instrument(s) of assessment.**<br>**• Reliability**<br>**To assure assessment practices are consistent so that the same result or judgment is arrived at if the** | **YES**<br>**NOT** |

**assessment is replicated in the same context. This demands consistency in the interpretation of evidence;**
**therefore, careful monitoring of assessment is vital.**
**• Fairness and transparency**
**To verify that no assessment process or method(s) hinders or unfairly advantages any student. The following**
**could constitute unfairness in assessment:**
**♣ Inequality of opportunities, resources or teaching and learning approaches**
**♣ Bias based on ethnicity, race, gender, age, disability or social class**
**♣ Lack of clarity regarding Learning Outcome being assessed**
**♣ Comparison of students' work with other students, based on learning styles and language**
**• Practicability and cost-effectiveness**
**To integrate assessment practices within an outcomes-based education and training system and strive for**
**cost and time-effective assessment.**
**2 ASSESSMENT FRAMEWORK FOR VOCATIONAL QUALIFICATIONS**
**The assessment structure for the National Certificates (Vocational) qualification is as follows:**
**2.1 Internal continuous assessment (ICASS)**
**Knowledge, skills values, and attitudes (SKVAs) are assessed throughout the year using assessment**
**instruments such as projects, tests, assignments, investigations, role-play and case studies. The internal**
**continuous assessment (ICASS) practical component is undertaken in a real workplace, a workshop or a**
**"Structured Environment". This component is moderated internally and externally quality assured by Umalusi.**
**All internal continuous assessment (ICASS) evidence is kept in a Portfolio of Evidence (PoE) and must be**
**readily available for monitoring, moderation and verification purposes.**
**2.2 External summative assessment (ESASS)**
**The external summative assessment is either a single or a set of written papers set to the requirements of**
**the Subject Learning Outcomes. The Department of Education administers the theoretical component**
**according to relevant assessment policies.**
**Applied Policing Level 4 (January 2020)**
**National Certificates (Vocational) Department of Education 4**
**A compulsory component of external summative assessment (ESASS) is the integrated summative**
**assessment task (ISAT). This assessment task draws on the students' cumulative learning throughout the**
**year. The task requires integrated application of competence and is executed under strict assessment**
**conditions. The task should take place in a simulated or "Structured Environment". The integrated summative**
**assessment task (ISAT) is the most significant test of students' ability to apply acquired knowledge. The integrated assessment approach allows students to be assessed in more than one subject with the**
**same integrated summative assessment task (ISAT). External summative assessments will be conducted annually between October and December, with**
**provision made for supplementary sittings.**
**3 MODERATION OF ASSESSMENT 3.1 Internal moderation**
**Assessment must be moderated according to the internal moderation policy of the Further Education and**
**Training (FET) college. Internal college moderation is a continuous process. The moderator's involvement**
**starts with the planning of assessment methods and instruments and follows with continuous collaboration**
**with and support to the assessors. Internal moderation creates common understanding of Assessment**
**Standards and maintains these across vocational programmes.**
**3.2 External moderation**
**External moderation is conducted by the Department of Education, Umalusi and, where relevant, an**
**Education and Training Quality Assurance (ETQA) body according to South African Qualifications Authority**
**(SAQA) and Umalusi standards and requirements. The external moderator:**
**• monitors and evaluates the standard of all summative assessments;**
**• maintains standards by exercising appropriate influence and control over assessors;**
**• ensures proper procedures are followed;**
**• ensures summative integrated assessments are correctly administered;**

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| **• observes a minimum sample of ten (10) to twenty-five (25) percent of summative assessments;<br>• gives written feedback to the relevant quality assuror; and<br>• moderates in case of a dispute between an assessor and a student. Policy on inclusive education requires that assessment procedures be customised for students who experience barriers to learning, and supported to enable these students to achieve their maximum potential.<br>4 PERIOD OF VALIDITY OF INTERNAL CONTINUOUS ASSESSMENT (ICASS)<br>The period of validity of the internal continuous assessment mark is determined by the National Policy on the<br>Conduct, Administration and Management of the Assessment of the National Certificates (Vocational). The internal continuous assessment (ICASS) must be re-submitted with each examination enrolment for<br>which it constitutes a component.<br>5 ASSESSOR REQUIREMENTS<br>Assessors must be subject specialists and should ideally be declared competent against the standards set<br>by the ETDP SETA. If the lecturer conducting the assessments has not been declared a competent<br>assessor, an assessor who has been declared competent may be appointed to oversee the assessment<br>process to ensure the quality and integrity of assessments.<br>6 TYPES OF ASSESSMENT<br>Assessment benefits the student and the lecturer. It informs students about their progress and helps<br>lecturers make informed decisions at different stages of the learning process. Depending on the intended<br>purpose, different types of assessment can be used.<br>Applied Policing<br>National Certificates (Vocational) Department of Education 5<br>6.1 Baseline assessment<br>At the beginning of a level or learning experience, baseline assessment establishes the knowledge, skills,<br>values and attitudes (SKVAs) that students bring to the classroom. This knowledge assists lecturers to plan<br>learning programmes and learning activities.<br>6.2 Diagnostic assessment<br>This assessment diagnoses the nature and causes of learning barriers experienced by specific students. It is<br>followed by guidance, appropriate support and intervention strategies. This type of assessment is useful to<br>make referrals for students requiring specialist help.<br>6.3 Formative assessment<br>This assessment monitors and supports teaching and learning. It determines student strengths and<br>weaknesses and provides feedback on progress. It determines if a student is ready for summative<br>assessment.<br>6.4 Summative assessment<br>This type of assessment gives an overall picture of student progress at a given time. It determines whether<br>the student is sufficiently competent to progress to the next level.<br>7 PLANNING ASSESSMENT<br>An assessment plan should cover three main processes:<br>7.1 Collecting evidence<br>The assessment plan indicates which Subject Outcomes and Assessment Standards will be assessed, what<br>assessment method or activity will be used and when this assessment will be conducted.<br>7.2 Recording<br>Recording refers to the assessment instruments or tools with which the assessment will be captured or<br>recorded. Therefore, appropriate assessment instruments must be developed or adapted.<br>7.3 Reporting<br>All the evidence is put together in a report to deliver a decision for the subject.<br>8 METHODS OF ASSESSMENT<br>Methods of assessment refer to who carries out the assessment and includes lecturer assessment, self-<br>assessment, peer assessment and group assessment** | |
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| **LECTURER ASSESSMENT** | The lecturer assesses students' performance against given criteria in different contexts, such as individual work, group work, etc |
| **SELF-ASSESSMENT** | Students assess their own performance against given criteria in different contexts, such as individual work, group work, etc. |
| **PEER ASSESSMENT** | Students assess another student's or group of students' performance against given criteria in different contexts, such as individual work, group work, etc. |
| **GROUP ASSESSMENT** | Students assess the individual performance of other students within a group or the overall performance of a group of students against given criteria |
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| **METHODS FOR COLLECTING EVIDENCE** | | | | |
|---|---|---|---|---|
| | Observation<br>• Class questions<br>• Lecturer, student, parent discussions | Assignments or tasks<br>• Projects<br>• Investigations or research<br>• Case studies<br>• Practical exercises<br>• Demonstrations<br>• Role-play<br>• Interviews | Examinations<br>• Class tests<br>• Practical examinations<br>• Oral tests<br>• Open-book tests | YES /NO |
| **Assessment instruments** | Observation sheets<br>• Lecturer's notes<br>• Comments | | Students answer the same questions in the same way, within the same time | |
| **Assessment tools** | Observation sheets<br>• Lecturer's notes<br>• Comments | Checklists<br>• Rating scales<br>• Rubrics | | |
| **Evidence** | Focus on individual students<br>• Subjective evidence based on lecturer observations and impressions | Open middle: Students produce the same evidence but in different ways.<br>Open end: Students | Students answer the same questions in the same way, within the same time. | |

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| | | use<br>same process to achieve<br>different results. | | |
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ASSESSMENT IN APPLIED POLICING
1 SCHEDULE OF ASSESSMENT
At NQF levels 2, 3 and 4, lecturers will conduct assessments as well as develop a schedule of formal assessments that will be undertaken in the year. All three levels also have an external examination that accounts for 50 percent of the total mark. The marks allocated to assessment tasks completed during the year, kept or recorded in a PoE account for the other 50 percent. The PoE and the external assessment include practical and written components. The practical assessment
in Applied Policing (Level 4) must, where necessary, be subjected to external moderation by Umlauts or an appropriate Education and Training Quality Assurance (ETQA) body, appointed by the Umlauts Council in terms of Section 28(2) of the General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001).
2 RECORDING AND REPORTING
Applied Policing (Level 4), as is the case for all the other Vocational subjects, is assessed according to five

| RATING CODE | RATING | MARKS % | YES/NOT |
|---|---|---|---|
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he student's PoE must include at least:
• A contents page
• The assessment tasks according to the assessment schedule
• The assessment tools or instruments for the task
• A record of the marks (and comments) achieved for each task Where tasks cannot be contained as evidence in the PoE, its exact location must be recorded and it must be
readily available for moderation purposes. The following units guide internal assessment in Applied Policing Level 4

| NUMBER OF UNITS | ASSESSMENT | COVERAGE | YES /NO |
|---|---|---|---|
| | Formal written tests | One or more completed topics | |
| | internal written exam | All completed topics | |
| | Practical assessments | Must cover the related Subject Outcomes | |
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INTERNAL ASSESSMENT OF SUBJECT OUTCOMES IN APPLIED POLICING - LEVEL 4 Topic 1: Crime prevention

| **SUBJECT OUTCOME** | | |
|---|---|---|
| **1.1 Identify and analyse a crime prevention problem.** | | |
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES | YES/NO |
| **A specific crime prevention problem/scenario is identified and analysed.** | Identify a crime prevention problem/scenario<br>• Analyse this particular crime prevention problem/scenario. | |
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| ASSESSMENT TASKS OR ACTIVITIES |
|---|
| **See Subject Outcome 3** |

: .2 Develop a crime prevention plan.

| SUBJECT OUTCOME | | |
|---|---|---|
| **1.1 Identify and analyse a crime prevention problem.** | | |
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES | YES/NO |
| **The correct crime prevention approach is identified from a model presented using relevant knowledge and skills**<br>**A crime prevention plan is developed to address the problem.** | Identify the correct crime prevention approach from a model presented using relevant knowledge and skills<br>• Develop a crime prevention plan to address the problem. | |
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| **ASSESSMENT TASKS OR ACTIVITIES** | | |
| **See Subject Outcome 3** | | |

INTERNAL ASSESSMENT OF SUBJECT OUTCOMES IN APPLIED POLICING - LEVEL 4 Topic 1: Crime prevention

| SUBJECT OUTCOME | | |
|---|---|---|
| **1.1 Identify and analyse a crime prevention problem.** | | |
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES | YES/NO |
| **The appropriate and most effective method of presentation is decided on.**<br>**The plan is presented to a local community.** | Decide on the appropriate and most effective method of presentation.<br>• Present the plan to a local community. | |
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| **ASSESSMENT TASKS OR ACTIVITIES** | | |
| **Open-book test covering both Topics 1 and 2 (weighted value: 5/100 per topic).**<br>**Assignment (weighted value: 10/100).** | | |

Crime investigation/forensics

| SUBJECT OUTCOME | | |
|---|---|---|
| **1.1 Identify and analyse a crime prevention problem.** | | |
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES | YES/NO |
| **A crime investigation problem is identified in a community.**<br>**This particular problem is analysed.** | Identify a crime investigation problem in a community.<br>• Analyse this particular problem. | |
| | | |
| | | |
| **ASSESSMENT TASKS OR ACTIVITIES** | | |
| **Open-book test covering both Topics 1 and 2 (weighted value: 5/100 per topic).**<br>**Assignment (weighted value: 10/100).** | | |

Develop a response to the crime investigation problem

| SUBJECT OUTCOME |
|---|

| 1.1 Identify and analyse a crime prevention problem. | | |
|---|---|---|
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES | YES/NO |
| | | |
| | | |
| | | |
| **ASSESSMENT TASKS OR ACTIVITIES** | | |
| **□ Open-book test covering both Topics 1 and 2 (weighted value: 5/100 per topic).<br>□ Assignment (weighted value: 10/100).** | | |

.3 Present the strategy to policing agencies.
ASSESSMENT STANDARDS LEARNING OUTCOMES
• The appropriate and most effective method of presentation is selected.
• The plan is presented to policing agencies.
• Decide on the appropriate and most effective method of presentation.
• Present the plan to policing agencies.

Topic 4: Evaluation of the functioning of a police station

| **SUBJECT OUTCOME<br>4.1 : Analyse the day-to-day activities of a local police station and compare these activities with the prescribed constitutional, statutory and human rights requirements** | |
|---|---|
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES |
| **The day-to-day activities and processes completed over a period of time in a local police are observed and recorded as a short report.<br>□ The actual activities in a local police station for a specific crime or incident reported by a member of the public are compared against the statutory, constitutional and human rights requirements.** | Observe and recognise typical activities and processes completed within a specific police station over three 12 hour periods (one day shift, one night shift and one weekend shift)<br>• Write a short report on all activities and processes completed in the specific police station over a period of time.<br>• Evaluate the actual activities and processes completed in the specific police station relating to a specific crime or incident reported by a member of the public against the prescribed and expected statutory, constitutional and human rights requirements for processes and activities.<br>• Distinguish between activities that are compliant and those that are non-compliant to the prescribed processes.<br>• Write a comprehensive report and make critical recommendations on how to improve the activities and processes of the police station to meet the required statutory, constitutional and human rights requirements |

Topic 4: Evaluation of the functioning of a police station

| **SUBJECT OUTCOME<br>Describe and apply advanced respiratory , strength and stretch training** | |
|---|---|
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES |
| **Advanced cardio respiratory training is described<br>□ Advanced strength training is described<br>□ An advanced stretching programme is described<br>□ Advanced cardio respiratory, strength and stretching exercises are executed and progress against the baseline recorded (range: start with baseline values and record progress fortnightly throughout the year)** | Describe advanced cardio respiratory training<br>• Describe advanced strength training<br>• Describe advanced stretching programme<br>• Execute advanced cardio respiratory, strength and stretching exercises and record progress continually against the baseline. |

• Running 2,4 km daily is compulsory
• An assignment on physical wellbein

Topic 4: Evaluation of the functioning of a police station

| **SUBJECT OUTCOME**<br>**4.1 : Analyse the day-to-day activities of a local police station and compare these activities with the prescribed constitutional, statutory and human rights requirements** | |
|---|---|
| **ASSESSMENT STANDARDS** | LEARNING OUTCOMES |
| **▯ The components of the standard SAPS skill and fear test is explained**<br>**▯ The skill and fear fitness test is executed (range: tyre resistance, high- low bars, hang ladder, mid-bars, assisted wall, tower, balancing beam, Jacobs ladder, tunnel and leopard crawl)**<br>**▯ Own fitness levels are monitored and progress is recorded against the baseline (range: start with baseline values and record progress fortnightly throughout the year)**<br>**▯ Explain the components of the skill and fear fitness test**<br>**▯ Execute the skill and fear fitness test**<br>**▯ Monitor own fitness levels and record progress**<br><br>**against baseline**<br>**: Describe and apply discipline and drill movements**<br>**ASSESSMENT STANDARDS LEARNING OUTCOMES**<br>**▯ Basic discipline and movement of drill related to an individual are explained**<br>**▯ Basic movements of drill related to an individual are demonstrated**<br>**▯ Own discipline and drill movements are monitored and progress recorded against the baseline (range: start with baseline values and record progress fortnightly throughout the year)**<br>**▯ Explain the components of the skill and fear fitness test**<br>**▯ Demonstrate basic drill movements related to individuals**<br>**▯ Monitor own discipline and drill movements and**<br>**record progress against baseline**<br>**ASSESSMENT TASKS OR ACTIVITIES**<br>**▯ Practical drill with suitable clothing for drill and physical training such as track suits and training shoes**<br>**▯ Physical training on an obstacle course set out according to the SAPS requirements**<br>**▯ A parade ground for morning parades (include hoisting of the South African flag and singing of the National** | • Practical drill with suitable clothing for drill and physical training such as track suits and training shoes<br>• Physical training on an obstacle course set out according to the SAPS requirements<br>• A parade ground for morning parades (include hoisting of the South African flag and singing of the National<br>Anthem)<br>• Running 2,4 km daily is compulsory |

SPECIFICATIONS FOR EXTERNAL ASSESSMENT IN APPLIED POLICING - LEVEL 4 4.1 Integrated summative assessment task (ISAT)

A compulsory component of the external assessment (ESASS) is the integrated summative assessment task (ISAT). The integrated summative assessment task (ISAT) draws on the students' cumulative learning achieved throughout the year. The task requires integrated application of competence and is executed and recorded in compliance with assessment condition

| | | | | |
|---|---|---|---|---|
| **LEVEL 2** | KNOWLEDGE AND COMPREHENSION | APPLICATION | ANALYSIS, SYNTHESIS AND EVALUATION | |
| | 30% | 50% | 20% | |
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**guide  hand over certificate, award diplomat, graduat  appreciation**

**Police warranty duty  employer labour** :

Engineering design analyse investigation database system  exhibit,, no exhibit  relate service completed :

...../ available docket case  poling unity patrol fly squad, service.  Implementation tpm data storage icass.

Completed assessment week table content :

**Moderator facilitator instructor sasseta, seta: security training  safety,  strategies**

**Trainer  performance train training.  Manage electronic system**

**Policy trainer report safety checklist material safe secure  prevention:  framework regulatory:**

**Training date.. Time  Manuel system..... Yes not  logistic**

**....**

**New police  new ranking new low outcome constitutional**

**Poe:  safety charge takes  system patrol  policy community**

**Health officer procedure  policy osha  sabs  ... form 1,2,3  case docket completed,**

**.....  Discussion group  fire fighting, first  aid**

**THE POLICE INTRODUCTION: SCIENCE / technical career vocational**

**Explanation: low portfolio evidence assessing indentify**

2. section career orientation profile
3. selection process /; choose a career answering
4. question reward living leave , profession answering occupational
5. student guidance counselling police opportunity
6. policing excellent talent
7. Police material study career and fire armed career basic advance filing essential
8. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling

   Correlation job policing

   For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

   -application form college duty reason leave, clearance record college, school graduation last occupation college.

   8.1 .peace officer preamble.

   Duty police college peace duty responsible protection and enforcing low,

   8.2 .objective maintenance low enforcing low

   8.2 code ethic

   - Special duty assignment case involving college policing duty career

   2.3. Propagation priority opportunity duty

   2, 3 salary career allowance bursary poling college learner reward booking

2.4 Duties and qualified money, security priority Function Company to prevent investigation occurrence booking, combating crime
2.5 .old private police no longer existed, replace by company security in Function College - to screen an to detect t movement in private space sector college , special agent intelligence ,
-2.6. employer private security company in sector duty , job opportunity patrol ,officer duty regulation safety and secure space,
-2.7 .police minim cadet junior function seignior college programme orient career profile
2.7.1. programme gymnastic obstacle course subject conduct search police , examination psychology ,psychometric test , polytrophic test collect deb employment test constable weren't , pyrotechnic policing

2.8. Employment opportunity college lecture clerk, salary schedule
2.9. Job requirement operational task, physical demanded study case college,

2.10. Deduction probation life insurance, grade 1- grade 12 salary uniform, transport
2.10. New deputy ranking, constable warrant sergeant, lieutenant brigadier, captain Experience new treatment ranking
2.11. Performance vector country, good money look
2.11 crime report
2.12. Leistering private police value science private police
2.13. Wath career relate police
2.14 professional a matter criminal, an amateur criminal career art attitude
- Historical statistic criminal report
Uniformed crime report

- Preservation of public peace mistake
- 2.15. court system , division pre trial paralegal police warranty constable
- 2.16. police moral : life police handicap role duty college no working type patrolling nice ruling ,
- 2.17.Police arrest job career orientation assessing labour
- 2.18 , policing , use and of police discretion analysing complain pertinent observation legislature judgement correction
- 2.19 .training finger print , criminal
- Technology crime
- Challenge of crime police college mark completed form unity docket reward , appointed unity research investigation
- Making detective hunted , research drug , Scotland platoon
- Police science unity constable time exact school duty week duty , log activity departure police , time warrant warranty process, time sergeant team target lieutenant , adjutant , colonel brigadier director, colonel , cadet minim junior police school completed . team join operant stationary process
- Sergeant , position object 360 degree scatty /
- Fire arm detection compensation injury fire arm policing training system record Manuel salary pay leave examination deb polygraphs test profile line , career experience work
- Private college , public college brigade unity safety police and security private primary function , secondary function task unity

**THE engineering electrical , mechanical, civil chemical/ police engineering electrical**
**INTRODUCTION: SCIENCE / technical career vocational**

**Explanation: low portfolio evidence assessing indentify**

1. section career orientation profile engineering duty maintenance , installation

2. selection process /; choose a career answering
3. question reward living leave , profession answering occupational
4. student guidance counselling police opportunity
5. engineering electrical , excellent talent
6. Engineering , break down m material study career and fire armed career basic advance filing essential
7. Career : understand job by sleet skill opportunity policing , job duties that what requirement job policing ,correlation of job engineering teach ,inspection duty engineering Duty engineering college peace duty responsible protection and enforcing low,
   8.2 .objective maintenance low enforcing low
   8.2 code ethic
   - Special duty assignment case involving college policing duty career
   2.3. Propagation priority opportunity duty
   2,3 salary career allowance bursary poling college learner reward booking
8. 2.4 Duties and qualified money, security engineering priority Function Company to prevent investigation occurrence
9. Engineering minim cadet junior , what career engineering relate , what are Cree engineering , fire arm , machine polygraph oscilloscope detector injury , profession analyse engineering,
10. Fire arm index chemical ph concentration base acid detection drug substance fire arm system information lab, detection assignment assessment exam record over stack over stoking .

**Career Overview**

A police officer prevents combats and investigates crime. They are called to criminal situations such as robberies, domestic incidents, drug busts and the like. In addition to this, policer officers patrol the streets to look out for suspicious activity. They are trained to defend themselves and those in need of defence. Within a police station, there is a ranking system. The ranks in the police force are as follows:

- Detective
- Corporal
- Sergeant
- Lieutenant
- Captain
- Deputy chief
- Chief

11.

1. **Ass 1 activity 1. St peace info manage system**
2. section career orientation profile : explanation informers and administer case recruitment , overstocking database , over stay data base criminal record , storage database criminal record system police spread sheet case docket examination :
3. selection process /; choose a career answering
4. question reward living leave , profession answering occupational
5. student guidance counselling police opportunity
6. policing excellent talent
7. Police material study career and fire armed career basic advance filing essential

8. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
   Correlation job policing
   For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

9. **Poe . Completed .data base storage ../ top model visibility**

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**Mark 100 /**

10. **Ass 1 activity 1. St peace information manage admin case**
11. section career orientation profile
12. selection process /; choose a career answering
13. question reward living leave , profession answering occupational
14. student guidance counselling police opportunity
15. policing excellent talent
16. Police material study career and fire armed career basic advance filing essential
17. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
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15. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
19. **. Completed .data base storage ../ top model visibility**

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**Mark 100 /**

**20. Ass 1 activity 1. St peace framework regulatory**

21. section career orientation profile , constitutional frame work required low implementation low power attorney police legislation judiciary policy compulsory mandatory ordor, recruitment , government
22. osha sabs low required operational country national international commissioner
23. selection process /; choose a career answering
24. question reward living leave , profession answering occupational
25. student guidance counselling police opportunity
26. policing excellent talent
27. Police material study career and fire armed career basic advance filing essential
28. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

**29. . Completed .data base storage ../ top model visibility**

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**Mark 100 /**

**30. Ass 1 activity 1. St peace administration communication skill**

31. section career orientation profile , skill annual report goal skill , report occurrence , health statement write
32. selection process /; choose a career answering
33. question reward living leave , profession answering occupational
34. student guidance counselling police opportunity
35. policing excellent talent
36. Police material study career and fire armed career basic advance filing essential
37. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
38. **. Completed .data base storage ../ top model visibility**

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**Mark 100/**

**39. Ass 1 activity 1. St peace service delivery**

40. section career orientation profile , financial impact bill cost project report
41. selection process /; choose a career answering
42. question reward living leave , profession answering occupational
43. student guidance counselling police opportunity
44. policing excellent talent
45. Police material study career and fire armed career basic advance filing essential
46. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
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**48. Police . safety and security general conduct and special security protection vip**

49. Section career orientation profile. protection unity safety security charge take metro police, private unity primary service police private confidential sector , public order private order disclose, procedure labour
50. selection process /; choose a career answering
51. question reward living leave , profession answering occupational
52. student guidance counselling police opportunity
53. policing excellent talent
54. Police material study career and fire armed career basic advance filing essential
55. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify
    Sasseta caps , isat safe secure examination assessment moderator, instructor, team
56. **. Completed .data base storage ../ top model visibility**

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**Mark 100 /**

**57. Ass 1 activity 1. St peace defence military science conduct**

16. _section career orientation profile , military police , court unity military low enforcing military defensive police record , combating unity criminal military terrorist Guerra robbery recruit
17. selection process /; choose a career answering
18. question reward living leave , profession answering occupational
19. student guidance counselling police opportunity
20. policing excellent talent
21. Police material study career and fire armed career basic advance filing essential
22. Career : understand job by sleet skill opportunity policing , job duties that what requirement job poling
    Correlation job policing
    For selection of police personnel, retirement police ranking constant personnel level qualified constable, warranty, sergeant, lieutenant student opportunity qualify

**58. . Completed .data base storage ../ top model visibility**

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**Mark 100 /**

59. **Ass 1 activity 1. St peace educare safety toy fire arm kid dialyse**
60. **. Completed .data base storage ../ top model visibility**

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**61. Ass 1 activity 1. St peace : isat caps moderator instructor facilitator trainer**

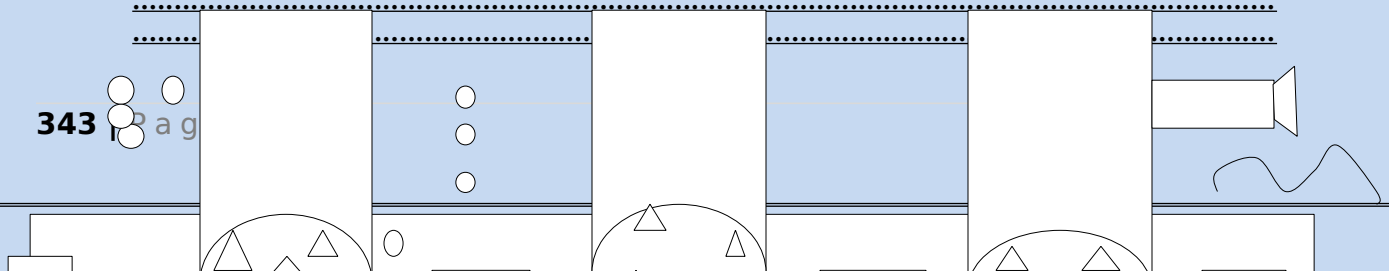
**62. Ass 1 activity 1. St peace COMMUNITY POLICE .**

**63. Ass 1 activity 1. St peace management humaine personaliy .**
**Induction**

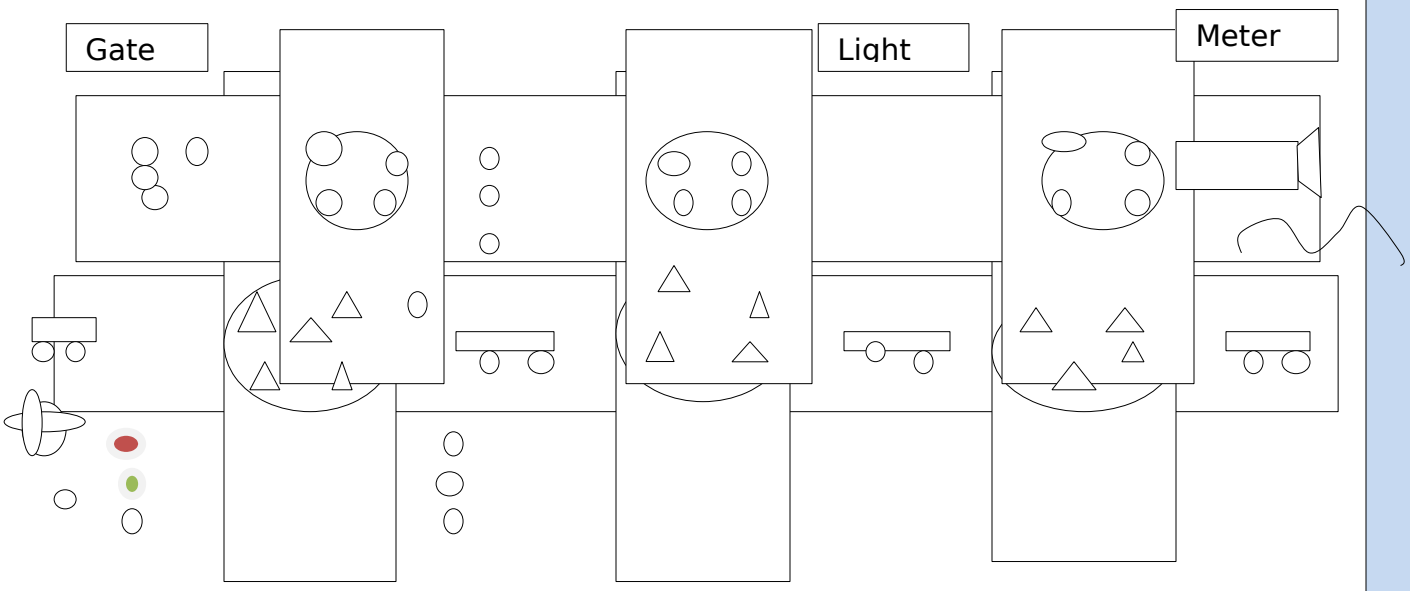
**.Ass activity . st peace Safety and security step police data criminel**
**Policy safety prevention indemnination data coverage storage assessing**
**Wath happen ... coverage discoverage protocole security nature occured**
**keeping data, policy safety inspector assessor moderator , report time in out**
**data attandance register jkee control**

**Compulation assessor collected data base information , supervisor case docket**
**attandace register information ms office data coordination data compulation .**

**64. . Completed .data base storage ../ top model visibility**



Domain application , use, trade theory industrial, electrical, electronic, use domain military, police, intelligence ,, bridge  ways limitation, interference , practical, barrier, wheatstone , equation Kirchhoff, Traffic sign



Relation bridge, Kirchhoff equation one source, 2 source , derivative di/dt instantaneous load ,

Et= R1.I1xR5.I5xR4.I4 , if source ET = ones source , 2 source e1, e,2 side

Et= R2.I2xR5.I5xR3.I3

Equation loop , a,b,,d ,a

Equation loop, bd,e

Magnitude loop equation , i1,i2

E= R1.I1+ R2.I2

Et= R1.I1+ R2.I2

..... Substitute compare relation, circuit current pass go , over load , application multi dimensional sector,, identification analyse investigation engenieure , linear, equation

Relation impedance, conductance circuit total

Load di/dt

Z=$r^2$+$(l+c)^2$,,serie,

1/z conductance paralle, load,

Icco, vcc, rcc, ,, diode load, i diode ,

Ib=ic+ie,,

Ebt= R1b.I1bxR5b.I5bxRb4.Ib4 , if source ET = ones source , 2 source e1, e,2 side

Et= R2b.Ib2xR5b.I5xR3b.I3b ,,

1 **Name of subject**; task, ENGINEERING ELECTRICAL/ N1, N2,N3N,4,N5.N6 , n engineering

**Lecturer and moderator is provided; : conies ,**

1.2 **Subject aims electrical engineering**: trade theories electrical , industrial electronic , mathematics, electro technology engineering science , electrotechnic, logic system .

/learning objectives are listed:

1.3 **Conceptual level indicated per question/ instruction along with mark allocation**

**1.4 Spread of conceptual weighting indicated for the task as a whole**

**..POE. EVIDENCE PORTOFOLIO**

**ACTIVITY LOW LESSON , DOCUMENT DOCKET RELATE**

**ANALYSE SUBMISSION EVIDENCE LOW, LESSON AND SUBJECT COURSE, TEST TESTIFY CONDITION**

| **TRADE THEORY ELECTRICAL** | **INDUSTRIAL ELECTRONIC** | **ENGINEERING SCIENCE** | **MATHEMATICS** | **ASSESSMENT INFORMATION** | **INFORMATION MANAGEMENT, ASS, ACC, POE** | **BRAKE/TIME** |
|---|---|---|---|---|---|---|

| | |
|---|---|
| **TRADE THEORY ELECTRICAL,**<br>**REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL LOW TRADING COULOMB , AMPER ,VOLTE, FARADYA,**<br>**HERY FLEMING KIRICHOOF ,JOUL, WATT / MOTION LOW**<br>**MODULE TABLE COMPLETED**<br>**HERTZ, , COMPARATOR CREATOR ENGINEERING ,** | OUTCOM LOW EVIDENCE / AMANDEMENT POLICY POLICY 2020 DISCIPLINAIRY ENGINEERING , APPROVED<br>ELECTRICAL POE,, INFORMATION INFORMER ADMNISE CASE , ENGINEERING CREATIVE KNOWLEDGE, THING PROJECTION DESIGN WORK , WORD<br>TOPIC , GOOD CONDUCT ENGINEERING ORDER BOOK /<br>OTCOM TOTAL MARK SHEET CONDUCT TEST DISCIPLINAIRY WORK , GOOD CONDUCT DISCUSS CRITICAL TOPIC, ,<br>GOOD CONDITION ORDER BOOKING, COMPLIANCE , ANALYSE<br>FRAMEWORK REGULATORY<br>DELIVERY<br>MANAGEMENT SYSTM INFORMATION<br><br>V=r.i ...e=v+ri ,,,,linear to supply ex, ey factorise low<br>$A=\pi r^2$<br>$va^2+vb^2=vc^2$<br>rms, vrms ,form, ,,z=, |
| **INDUSTRIAL ELECTRONIC**<br>**REQUIRED , TASK STEP OPERATIONEL LOW** | dusting/tuning and calibrating electronic |

| | |
|---|---|
| **CREATIVE WORK ENGINEERING ELECTRICAL /** | equipment/sub-assemblies Returning to service and testing to specification the repaired electronic equipment/sub-assembly,<br>ie+ib=ib ,, icc,vcc, vz, tcc, |
| **ENGINEERING<br>SCIENCE/<br>DRAWING ENGINEERING<br>PROJECTION<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL /<br>NEWTON, FORCE MKSS, IS** | LOW ENGINEERING SICENCE COMPARATOR EQUATION<br>FX+FY=0 LINEAR, fx = mx..acc ,,, ua+xt =o , velocity initial time take ,speed , heater, power ,,friction move,, d=s/t<br>$fa^2+fb^2=c^2(x+a)^{n=¿¿}$<br>$\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$ |
| **MATHEMATIC<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL** | EQUATION ALGEBRAIC, ,,LINEARING EXPONENT<br>Ax+by=0<br>$a^2x+b^2y=¿c^2$ |
| **ASSESSMENT<br>INFORMATION<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL** | |
| **INFORMATION MANAGEMENT<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL** | $(x+a)^n=\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$ |
| **ENGINEERING ELECTRIAL<br>FUNDAMENTAL,<br>SYSTEM<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL<br><br>OUTCOM INTEGRATIF SUMMATIVE<br>FORMATIVE TOOLS ASSEMENT<br>EVALUATION : QUALIFY<br>CREATIVE TASK ON LOW EVIDENCE LOW,<br>MEETING COUNSIL ENGINEERING DIPLOMAT<br>CREATIVE, MEETING SUBMISSION** | $va^2+vb^2=vc^2$<br>$(1+x)^n=1+\frac{nx}{1!}+\frac{n(n-1)x^2}{2!}+\dots$<br>$f(x)=a_0+\sum_{n=1}^{\infty}\left(a_n\cos\frac{n\pi x}{L}+b_n\sin\frac{n\pi x}{L}\right)$ |

| | |
|---|---|
| **Pre- assessment record :** | |

**St peace college .**

**Exam sheet record mark total: score team training . semester 1,2 ,3 month move record**

**Subject: module , . score 1th , 2th ,3th, 4th submission qualify**

**Learner assessment baseline meet requirement ,level /lo/ lp/ .....**

**Award mark, value weight .....**

**Award mark certificate value weight .....**

**Award mark certificate diplomat value weight**

**Faculty , engineering ,.. Faculty policing ass activity , book mark code book number team explain**

| Name an surname | Term Test 1, Class work completed | Term Test2, | Term Tet3, | Semester Exam | Term test | Term test | Term test | Semester Exam | Total grand score Achev rating |
|---|---|---|---|---|---|---|---|---|---|
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**Invigilator name surname date time  learner :**

**Application: for diplomat engineering electrical award certificate**

Inbox

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**ST PEACE COLLEGE / AND A I P**

**FACULTY : ELECTRICAL ENGINEERING**

**TIME TABLE , / Study by tshingombe tshitadi fiston learner : conies //...mike**

**CERTIFICATE AWARD STATEMENT ENGINEERING ,N ,**

**ASSESSMENT INTEGRITY ACADEMIC, AND SCHOOL ENGINEERING LEARNER**

**TERM 1 TERM 2. TERM3, 1 YEARS, SECOND YEARS, MARCH. APRIL TERM END**

**SEMESTER 1 .2.3.4 COMPLETED, SUPLEMENTAIRY**

**LEVEL , N1,N2,N3,N4,N5,N6 / LEARNER L1,L2,L3,L4,L5,L6,**

**, DAILY WEEK, DIARY**

**1TH ATTANDANCE REGISTER / NON ATTANDANCE . POE**

| MON | TUE | WEN | FRI | TH | SAT | SU | TIME<br><br>HOUR PERIOD |
|---|---|---|---|---|---|---|---|
| **TRADE THEORY ELECTRICAL** | INDUSTRIAL ELECTRONIC | ENGINEERING SCIENCE | MATHEMATIC | ASSESSMENT INFORMATION | INFORMATION MANAGEMENT | BRAKE | 07H |
| | | | | | | | 08H00 |
| | | | | | | | 09H00 |
| | | | | | | | 10H00 |
| | | | | | | | 11H00 |
| | | | | | | | 12H00 |
| **LEARNING / ENGINEERING ELECTRICAL** | | | | | | | 13H00 |
| **ELECTROTECHNOLOGY/** | LOGIC SYSTEM | ENGINEERING DRAWING | MATHEMATIC | ORGANISATION PLANING , | FRAME WORK REGULATION MANGAGE SYSTM | | 14H00 |
| **ELECTROTECHNIC** | INDUSTRIAL ORIENTATION | | | HUMAINE RELATION COMMUNICAT | | | 15H00 |
| **PRACTICAL PANEL WIRING ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE ENGINEERING /PROJECT** | PRACTICAL PANEL WIRING<br><br>ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE | PRACTICAL PANEL WIRING<br><br>ELECTRICAL LEVEL. LEARNER CIRCUIT | PRACTICAL PANEL WIRING<br><br>ELECTRICAL LEVEL. LEARNER CIRCUIT | PRACTICAL PANEL WIRING<br><br>ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE | PRACTICAL PANEL WIRING<br><br>ELECTRICAL LEVEL. LEARNER CIRCUIT CREATIVE | | 16H00 |

| | ENGINEERING | CREATIVE ENGINEERING | CREATIVE ENGINEERING | ENGINEERING | ENGINEERING | | |
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**Study by tshingombe tshitadi fiston : approved check learner : conies //...mike**

**DESIGN E EDUCARE DIDACT / EGONOMETRICAL ENGINEERING DESIGN TIME TABLE / METHODIC / PROTECTION: POLICY ASSESSMENT POE SUBMISSION, ANALYSE FRAMEWORK REGULATORY /** AMANDEMENT POLICY POLICY 2020 DISCIPLINAIRY , ASSESSMENT MODERATOR FACILITATOR LOGISTIC POLICE PORTOFOLIO REWARD AWARD , RECORD CLEARENCE SASSSETA ASSESSEMENT CAPS ISAT SAPS MP SAFE SECURITY FRAMEWORK REGULATION TIME TABLE PROTECTION LEGAL QUESTION ANSWERING VALUABLE, REPORT OCCURENE DOCKET DOCUMENT EVIDENCE LOW TIME TABLE DELIVERY SYSTEM INFORMATION ,KEEP SAFE , OFFENCE DEFENSE LOW SANDF SECTOR ENGINEERING ,police script inspect document curriculum script report entry outcome document case ,missing documentation pagination content document confidential document assessment time table, report available certify copyright investigate communication document skill, stamp

-ASSESSMENT MODERATOR EDUCARE TEACHER INSPECTOR TEACH MARKER REWARD AWARD FRAMEWORK CIRCULLUM PORTOFOLIO EDUCATOR DIDACTIC LEARNER FORMATIVE SUMMATIVE TEACHER QUESTION RESEARCH VALUABLE LOW EVIDENCE VALUE OPERATIONEL ASSIGNMENT PSYCHO-PEDAGOGY TEST METRIV COMPLETED TASK MARKING STATEMENT / HIGH EDUCATION

ASSESSMENT MODERATOR LOW LABOUR INSPECTOR COMPENSATOR COSTE AWARD PORTOFOLIO INSURENCE LOW EVIDENCE JUDGEMENT VALUE CONSTITUTIONEL CASE BOOK, PROCESSOR LOYER ATTORNEY ASSESSMENT DISCIPLINERY HERING POLICE REFUND RECOVERY DISCOVERY BARGANING ENGINEERING RELATE INTERPRETE ,EDUCATOR TEACHER ENGINERING LOW FORMATIVE , REFORMATIVEACADEMIC TRANSCRIPT RECORD

1..**POE. EVIDENCE PORTOFOLIO**

**ACTIVITY LOW LESSON , DOCUMENT DOCKET RELATE**

**ANALYSE SUBMISSION EVIDENCE LOW, LESSON AND SUBJECT COURSE, TEST TESTIFY CONDITION**

| **TRADE THEORY ELECTRICAL** | **INDUSTRIAL ELECTRONIC** | **ENGINEERING SCIENCE** | **MATHEMATICS** | **ASSESSMENT INFORMATION** | **INFORMATION MANAGEMENT, ASS, ACC, POE** | **BRAKE/TIME** |
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| **TRADE THEORY ELECTRICAL, REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL LOW TRADING COULOMB , AMPER ,VOLTE, FARADYA, HERY FLEMING KIRICHOOF ,JOUL, WATT / MOTION LOW MODULE TABLE COMPLETED HERTZ, , COMPARATOR CREATOR ENGINEERING ,** | OUTCOM LOW EVIDENCE / AMANDEMENT POLICY POLICY 2020 DISCIPLINAIRY ENGINEERING , APPROVED ELECTRICAL POE,, INFORMATION INFORMER ADMNISE CASE , ENGINEERING CREATIVE KNOWLEDGE, THING PROJECTION DESIGN WORK , WORD TOPIC , GOOD CONDUCT ENGINEERING ORDER BOOK / OTCOM TOTAL MARK SHEET CONDUCT TEST DISCIPLINAIRY WORK , GOOD CONDUCT DISCUSS CRITICAL TOPIC, , GOOD CONDITION ORDER BOOKING, COMPLIANCE , ANALYSE FRAMEWORK REGULATORY DELIVERY MANAGEMENT SYSTM INFORMATION<br><br>V=r.i ...e=v+ri ,,,,linear to supply ex, ey factorise low<br>$A=\pi r^2$<br>$va^2+vb^2=vc^2$<br>rms, vrms ,form, ,,z=, |
| **INDUSTRIAL ELECTRONIC REQUIRED , TASK STEP OPERATIONEL LOW CREATIVE WORK ENGINEERING ELECTRICAL /** | dusting/tuning and calibrating electronic equipment/sub-assemblies Returning to service and testing to specification the repaired electronic equipment/sub-assembly,<br>ie+ib=ib ,, icc,vcc, vz, tcc, |
| **ENGINEERING SCIENCE/ DRAWING ENGINEERING PROJECTION REQUIRED , TASK STEP OPERATIONEL LOW** | LOW ENGINEERING SICENCE COMPARATOR EQUATION<br>FX+FY=0 LINEAR, fx = mx..acc ,,, ua+xt =o , velocity initial time take ,speed , heater, |

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| **CREATIVE WORK ENGINEERING ELECTRICAL / NEWTON, FORCE MKSS, IS** | power ,,friction move,, d=s/t<br>$fa^2+fb^2=c^2(x+a)^{n=¿¿}$<br>$\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$ |
| **MATHEMATIC<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL** | EQUATION ALGEBRAIC, ,,LINEARING EXPONENT<br>Ax+by=0<br>$a^2x+b^2y=¿c^2$ |
| **ASSESSMENT<br>INFORMATION<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL** | |
| **INFORMATION MANAGEMENT<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL** | $(x+a)^n=\sum_{k=0}^{n}\binom{n}{k}x^k a^{n-k}$ |
| **ENGINEERING ELECTRIAL<br>FUNDAMENTAL,<br>SYSTEM<br>REQUIRED , TASK STEP OPERATIONEL LOW<br>CREATIVE WORK ENGINEERING ELECTRICAL<br><br>OUTCOM INTEGRATIF SUMMATIVE<br>FORMATIVE TOOLS ASSEMENT<br>EVALUATION : QUALIFY<br>CREATIVE TASK ON LOW EVIDENCE LOW,<br>MEETING COUNSIL ENGINEERING DIPLOMAT<br>CREATIVE, MEETING SUBMISSION** | $va^2+vb^2=vc^2$<br>$(1+x)^n=1+\frac{nx}{1!}+\frac{n(n-1)x^2}{2!}+\ldots$<br>$f(x)=a_0+\sum_{n=1}^{\infty}\left(a_n\cos\frac{n\pi x}{L}+b_n\sin\frac{n\pi x}{L}\right)$ |
| **STATEMENT OF WORK EXPERIENCE/LOGBOOK<br>Instructional Programme<br>Code:50908401National N Diploma: Engineering Studies: Electrical Engineering SAQA Qualification ID:90674: National N Diploma, Engineering Studies: Electrical Engineering NQF** | Unit Descriptor Unit descriptor This unit covers terminating, disconnecting or reconnecting electrical wiring and circuits. Application of the UnitApplication of the unit This unit applies to the connection of wiring and includes termination and connection of all types of cords and cables, excluding specialist cables.All testing is undertaken on completed circuits where these are not connected to main supply, using appropriate methods such as continuity and resistance checks.Specifications are obtained from electrical/electronic circuit drawings and data sheets. Soldering/desoldering of electrical/electronic components may also require the |

**Level 6, 360 creditsSAQA Learning Programme ID:67043National N Diploma: Engineering Studies: Electrical Engineering,NQF Level 6, 360 creditsLearner DetailsName & Surname:ID Number:Employer DetailsCompany Name:Address:Supervisor Name:Work Telephone:E-Mail:Employer DetailsCompany Name:Address:Supervisor Name:Work Telephone:E-Mail:**
90674: National N Diploma, Engineering Studies: Electrical Engineering2Candidate completed a relevant Trade Test or worked in a technical environment relevant to the specialised theoretical subjects
**interpret technical drawingDateSignatureLook for evidence that confirms skills in:WA0201Checking the drawing against job requirements/related equipment in accordance with standard operating proceduresWA0202Confirming the drawing version as being current in accordance with standard operating proceduresWA0203Where appropriate, obtaining the current version of the drawing in accordance with standard operating proceduresWA0204Reading, interpreting information on the drawing, written job instructions, specifications, standard operating procedures, charts, lists and other applicable reference documentsWA0205Checking and clarifying task related information**
90674: National N Diploma, Engineering Studies: Electrical Engineering6WA0206Undertaking numerical operations, geometry and calculations/formulae within the scope of this u
**Terminate and connect electrical wiringDateSignatureLook for evidence that confirms skills in:WA0301Checking materials for conformance to specificationsWA0302Checking existing and new installation site for correct location and specificationWA0303Making terminations/connections to specification, manufacturer and regulatory requirementsWA0304Adjusting and fixing wiring supportsWA0305Marking, tagging and labelling cables, wires, conductors and connections to specificationWA0306Undertaking testing of wiring and connections for conformance to specificationWA0307Using language and literacy skills to complete short reports and required documentationWA0308Reading and interpreting routine information on written job instructions, specifications and standard operating procedures May include drawingsWA0309Using measurements for checking connections and componentsWE4Install and test electrical wiring and circuits up t**

**mponentsWE4Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.DateSignatureLook for evidence that confirms skills in:WA0401Interpreting circuits, drawings, specifications and instructionsWA0402Preparing work plans in accordance with legislative and regulatory requirements and standard operating procedures and hazard and safety requirements**
90674: National N Diploma, Engineering Studies:

selection of Unit MEM05001B (Perform manual soldering/desoldering -electrical/electronic components) or Unit MEM05002B (Perform high reliability soldering and desoldering) as applicable.This unit does not cover the competencies required for energising and testing of the circuit. If these skills are required, the competencies covered in Unit MEM10003B (Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.) must be satisfied.Termination and connection of specialist cables such as mineral insulated, steel wire, armoured cables etc., is covered in Unit MEM10011B (Terminate and connect specialist cables).Band:AUnit Weight:3Licensing/Regulatory InformationNot Applicable
MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 4of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaPre-RequisitesPrerequisite unitsPath 1MEM09002BInterpret technical drawingMEM12002BPerform electrical/electronic measurementMEM18001CUse hand toolsEmployability Skills InformationEmployability skillsThis unit contains employability skills.Elements and Performance Criteria Pre-ContentElements describe the essential outcomes of a unit of competency.Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 5of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaElements and Performance CriteriaELEMENTPERFORMANCE CRITERIA1.Prepare for electrical wiring termination and connection1.1.All work is undertaken safely and to workplace procedures and State/Territory regulations and legislative requirements.1.2.Materials are checked for correct specifications.1.3.Preparation of work is undertaken or checked/inspected for correct location and specifications.2.Connect electrical wiring2.1.Terminations/connections are made to specifications, manufacturers' requirements and to safety and State/Territory regulations and legislative requirements.2.2.All brackets, clamps, holders etc. are adjusted and fixed to specifications.2.3.All cables, wires, conductors and connections etc. are marked/tagged and labelled to specification.2.4.All completed wiring and connections are tested for compliance with specifications.2.5.All reports and documentation are completed correctly to required specifications.Required Skills and KnowledgeREQUIRED SKILLS AND KNOWLEDGEThis section describes the skills and knowledge required for this unit.Required skillsLook for evidence that confirms skills in:•checking materials for conformance to specifications•checking existing and new installation site for correct location and specification•making terminations/connections to specification, manufacturer and regulatory requirements•adjusting and fixing wiring supports•marking, tagging and labelling cables, wires, conductors and connections to specification•undertaking testing of wiring and connections for conformance to specification•using language and literacy skills to complete short reports and required
MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 6of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaREQUIRED SKILLS AND KNOWLEDGEdocumentation•reading and interpreting routine information on written job instructions, specifications and standard operating procedures Mayinclude drawings•using measurements for checking connections and componentsRequired knowledgeLook for evidence that confirms knowledge of:•safety hazards associated with the termination and connection of electrical wiring •statutory and regulatory requirements associated with the termination and connection of electrical wiring•wiring support and/or protection requirements and specifications•relevant manufacturer requirements•specifications and methods for terminating different materials •wiring support techniques and alternatives•marking, tagging and labelling requirements for cables, wires, conductors and connections•tests for wiring and connections•data to be recorded/reported and the frequency of recording/reporting•requirements for approval to work•use and application of personal protective equipment for terminating and connecting electrical wiring
MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 7of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaEvidence GuideEVIDENCE GUIDEThe evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.Overview of assessmentA person who demonstrates competency in this unit must be able to terminate and connect electrical wiring. Competency in this unit cannot be claimed until all prerequisites have been satisfied.Critical aspects for assessment and evidence required to demonstrate competency in this unitAssessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts.Context of and specific resources for assessmentThis unit may be assessed on the job, off the job or a combination of both on and off the job. Where assessment occurs off the job, that is the candidate is not in productive

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| Electrical Engineering7WA0403Following relevant legislative and regulatory requirements and standard operating procedures to work practicesWA0404Using measurement for installing and testing electrical wiring and circuitsWA0405Checking materials for conformance to specification WA0406Selecting cablesWA0407Installing cables/wires/conduit/enclosures and support systemsWA0408Marking and labelling cabling for identificationWA0409Testing wiring/systems and enclosures for compliance with specifications, relevant regulatory and legislative requirementsWA0410Energising and testing installationWA0411Identifyingand rectifying faultsWA0412Completing reports and documentation using short descriptions, comments and relevant terminologyWA0413Considering potential points of danger when planning a rescue or provision of assistanceWA0414Isolating electrical hazards in accordance with safety proceduresWE5Enter and change programmable controller operational parametersDateSignatureLook for evidence that confirms skills in**mponentsWE4Install and test electrical wiring and circuits up to 1000 volts a.c. and 1500 volts d.c.DateSignatureLook for evidence that confirms skills in:WA0401Interpreting circuits, drawings, specifications and instructionsWA0402Preparing work plans in accordance with legislative and regulatory requirements and standard operating procedures and hazard and safety requirements**<br>90674: National N Diploma, Engineering Studies: Electrical Engineering7WA0403Following relevant legislative and regulatory requirements and standard operating procedures to work practicesWA0404Using measurement for installing and testing electrical wiring and circuitsWA0405Checking materials for conformance to specification WA0406Selecting cablesWA0407Installing cables/wires/conduit/enclosures and support systemsWA0408Marking and labelling cabling for identificationWA0409Testing wiring/systems and enclosures for compliance with specifications, relevant regulatory and legislative requirementsWA0410Energising and testing installationWA0411Identifyingand rectifying faultsWA0412Completing reports and documentation using short descriptions, comments and relevant terminologyWA0413Considering potential points of danger when planning a rescue or provision of assistanceWA0414Isolating electrical hazards in accordance with safety proceduresWE5Enter and change programmable controller operational parametersDateSignatureLook for evidence that confirms skills in<br>**OFO-CODETRADE[√]COMMENTS642701Air-Conditioning and RefrigerationElectrical Specialisation Due to specialisation and the variety of trades (12 Trades) that lead to this diploma a learner needs at least complete at least 10 work experience and related activitiesinthe area of specialisationElectricians can specialise in:•construction, •high voltage installations, •substations, •pane wiring, etc. Artisans in:•refrigeration, •air-conditioning,•armature winding, •electronics, •megatronics, etc. and •Complete electrical subjects. How to Use this Module**<br>**i** | work, then an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The competencies covered by this unit would be demonstrated by an individual working alone or as part of a team. The assessment environment should not disadvantage the candidate. This unit could be assessed in conjunction with any other units addressing the safety, quality, communication, materials handling, recording and reporting associated with terminating and connecting electrical wiring or other units requiring the exercise of the skills and knowledge covered by this unit.Method of assessmentAssessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency. The candidate must have access to all tools, equipment, materials and documentation required. The candidate must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials.<br>MEM10002B Terminate and connect electrical wiringDate this document was generated: 27 May 2012ApprovedPage 8of 9© Commonwealth of Australia, 2012Manufacturing Skills AustraliaEVIDENCE GUIDEGuidance information for assessmentRange StatementRANGE STATEMENTThe range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.State/Territory regulations and legislative requirementsApplicable acts, regulations, codes of practice, Australian standards, International standardsCorrect location and specifications Cable trays, brackets, trenches Electrical wiringWiring associated with power, lighting, control wiring, machinery, switchboards and other electrical apparatusTerminations/connectionsUtilisation of a range of methods including clamping, crimping, pin connection, soldered joints, plugs, sockets etc., clamping of cables and wires, sealing entry points where req<br>Side Cutter Pliers<br>-<br>u<br>sed for cutting or trimming of connecting wires<br>or terminal leads<br>in the circuit board<br>Long nose Pliers<br>–<br>u<br>sed for holding, bending and stretching the lead of electronics<br>component or connecting wire.<br>Soldering Pencil<br>–<br>u<br>sed to join two or more metal conductors with the support of soldering lead melt<br>ed around it.<br>Multitester<br>-<br>i<br>nstrument use to measure voltage, current and resistance.<br>Resistor<br>-<br>a device designed intentionally to have a definite amount of resistance<br>Capacito<br>r<br>–<br>a devise that stores electrical energy.<br>Terminate<br>-<br>was a<br>shareware<br>modem<br>terminal<br>and<br>host<br>program for<br>MS<br>-<br>DOS<br>and<br>compatible operating systems developed from the early to the late 1990s by the |

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| **Introduction**<br>**Technical Terms**<br>**Learning Outcome**<br>**Information**<br>**Sheet**<br>**Oper**<br>**ation**<br>**Sheet**<br>**1.1**<br>**Self Check 1.1**<br>**Operation**<br>**Sheet**<br>**Learning Outcome 2**<br>**Information**<br>**Sheet**<br><br>**Activity Sheet**<br>**Learning Outcome 3**<br>**Job Sheet 3.1**<br>**Self**<br>**-**<br>**Test**<br>**A. State whether the following is**<br>**equipment**<br>**or a handtool.**<br>**_____ 1. Desoldering Tool**<br>**_____ 2. Soldering Pencil**<br>**_____ 3. Multi**<br>**-**<br>**Volts Power Supply**<br>**_____ 4. Long Nose Pliers**<br>**_____ 5. Portable Electric Handrill**<br>**B.**<br>**Write true if the statement is correct and false if otherwis**<br>**e:**<br>**_____ 1. A flat screwdriver is used in driving or fastening positive slotted**<br>**screw.**<br>**_____ 2. Soldering Pencil is used to join two or more metal conductors**<br>**with the support of soldering lead melted around it.**<br>**_____ 3.**<br>**Side Cutter Pliers is used for cutting or trimming of connecting**<br>**wires or terminal leads in the circuit board.**<br>**_____ 4. A multi**<br>**-**<br>**tester is used in boring holes in the plastics chassis.**<br>**_____ 5. A long nose pliers**<br>**is used for holding, bending and sketching the lead of electronics component or connecting wire.**<br>**CTIVITY SHEET 2.1**<br>**Learning Outcome 2.**<br>**Soldering and Terminating Techniques**<br>**Solder the given components in electronics.**<br>**Item**<br>**no.**<br>**Laboratory**<br>**Activities**<br>**T**<br>**O**<br>**T**<br>**A**<br>**L**<br>**1.**<br>**Soldering Technique** | Dane<br>Bo Bendtsen.<br>Terminat<br>ion<br>-<br>the point where a line, channel or circuit ends.<br>OPERATION SHEET 1.1<br>1<br>.<br>Given 10 kinds of hand tools Label and give the function of each. You will be<br>assessed using the following criteria.<br>Criteria<br>Score<br>Descriptor<br>Identified 10<br>tools<br>5<br>Excellent<br>Identified 7<br>-<br>9 tools<br>4<br>Very good<br>Identified 4<br>-<br>5 tools<br>3<br>Good<br>Identified 2<br>-<br>3 tools<br>1<br>-<br>2<br>Fair<br>Identified 0<br>-<br>1 tools<br>0<br>Po<br><br>Module<br>:<br>Terminating and Connecting Electrical<br>Wiring and Electronic Circuits<br>Learning Outcome 3 :<br>Test Termination and or Connection of Electrical<br>Wirings/electronics circuits<br>Assessment Criteria:<br>1.<br>Testing of all completed termination/connection of electrical wiring/electronics circuits is conducted in compliance with specifications<br>and regulations u<br>sing appropriate procedures and equipment.<br>2.<br>Wiring and circuits are checked using specified testing procedure.<br>3.<br><br>**Accidental events or conditions are responded to in accordance with Shannon–Hartley theorem**<br><br>From Wikipedia, the free encyclopedia<br>Jump to navigation Jump to search<br>**Information theory**<br>• Entropy<br>• Differential entropy<br>• Conditional entropy<br>• Joint entropy<br>• Mutual information<br>• Conditional mutual information<br>• Relative entropy |

**Are performed**
**2.**
**Wiring and connections are soldered**
**3.**
**Safety Precautions are observed**
**5**
**-**
**Skillfully performed**
**4**
**-**
**Very Satisfactory performed**
**3**
**-**
**Satisfactorily performed**
**2**
**-**
**Fairly performed**
**1**
**-**
**Poorly performed**
**A2104Running test functions and recording faults and/or equipment status indicated by built-in test functions/displaysWA2105Checking electronic equipment/sub-assemblies, components, connections and terminations for conformance to specificationsWA2106Removing and replacing components from the electronic equipmentWA2107Isolating electronic sub-assembly from the power supply90674: National N Diploma, Engineering Studies: Electrical Engineering23WA2108Adjusting/tuning and calibrating electronic equipment/sub-assembliesWA2109Returning to service and specification of electronic equipment/sub-assemblyWA2110Recording test resultsWE22Modify electronic equipmentDateSignatureLook for evidence that confirms skills in:WA2201Obtaining relevant circuit diagrams, schematics, manualsWA2202Isolating, tagging and verifying isolated equipmentWA2203Removing and refitting sub-assembly/equipment from the systemWA2204Carrying out modifications to specificationWA2205Amending circuit diagrams, schematics, equipment manuals, specifications affected by the modificationsWA2206Recommissioning electronic equipmentWA2207Testing, checking modified electronic equipment to ensure conformance to specificationsWA2208Entering routine and familiar information onto pro-forma and standard workplace formsWA2209Locating, reading and interpreting information on written job instructions, specifications, drawings, charts, lists and other reference documentationWE23Maintain, repair control instrumentation -single and multiple loop control systemsDateSignature90674: National N Diploma, Engineering Studies: Electrical Engineering24Look for evidence that confirms skills in:WA2301Obtaining and interpreting relevant engineering specifications, technical information, software data, diagrams and drawings, historical records and documents pertaining to the system components and operational dataWA2302Consulting system operators and other relevant plant personnel with respect to the control loop**

- Entropy rate
- Limiting density of discrete points

- Asymptotic equipartition property
- Rate–distortion theory

- Shannon's source coding theorem
- Channel capacity
- Noisy-channel coding theorem
- Shannon–Hartley theorem

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In information theory, the **Shannon–Hartley theorem** tells the maximum rate at which information can be transmitted over a communications channel of a specified bandwidth in the presence of noise. It is an application of the noisy-channel coding theorem to the archetypal case of a continuous-time analog communications channel subject to Gaussian noise. The theorem establishes Shannon's channel capacity for such a communication link, a bound on the maximum amount of error-free information per time unit that can be transmitted with a specified bandwidth in the presence of the noise interference, assuming that the signal power is bounded, and that the Gaussian noise process is characterized by a known power or power spectral density. The law is named after Claude Shannon and Ralph Hartley.

**Contents**


- 1 Statement of the theorem
- 2 Historical development
  - 2.1 Nyquist rate
  - 2.2 Hartley's law
  - 2.3 Noisy channel coding theorem and capacity
- 3 Implications of the theorem
  - 3.1 Comparison of Shannon's capacity to Hartley's law
- 4 Frequency-dependent (colored noise) case
- 5 Approximations
  - 5.1 Bandwidth-limited case
  - 5.2 Power-limited case


**amples**

1. At a SNR of 0 dB (Signal power = Noise power) the Capacity in bits/s is equal to the bandwidth in hertz.
2. If the SNR is 20 dB, and the bandwidth available is 4 kHz, which is appropriate for telephone communications, then C = 4000 $\log_2(1 + 100)$ = 4000 $\log_2$ (101) = 26.63 kbit/s. Note that the value of S/N = 100 is

**characteristicsWA2303Confirming function/malfunction of the system and/or its componentsWA2304Checking operational characteristics of control devices, signal conversion instruments and final control elements for conformance to specificationWA2305Identifying faults/defects in control system componentsWA2306Locating/reading in-built fault indicators and error codesWA2307Obtaining relevant pneumatic, electrical and electronic circuit diagramsWA2308Testing and monitoring the control loop for correct operationWA2309Monitoring and recording responses of the control systemWA2310Using appropriate fault-finding and diagnostic techniques and procedures throughout the monitoring and testing processWA2311Comparing collected data with the operational specifications of the control systemWA2312Marking components for repair or replacement90674: National N Diploma, Engineering Studies: Electrical Engineering25WA2313Dismantling/disassemblin g serviceable itemsWA2314Setting up appropriate test and calibration equipmentWA2315Setting and adjusting the controller modesWA2316Checking the control instrumentation for correct zero, span and rangeWA2317Adjusting the control system as requiredWA2318Completing all necessary reports including appropriate follow-up proceduresWA2319Commissioning the control systemWA2320Interpreting trends from operational dataWA2321Interpreting information from in-built devicesWA2322Calculating control loop characteristicsWE24Install, maintain and calibrate instrumentation sensors, transmitters and final control elementsDateSignatureLook for evidence that confirms skills in:WA2401Accessing relevant data sheets, circuit diagrams, engineering drawings, instructions, specifications, information and supplier catalogues and replacement componentsWA2402Selecting sensors, transmitters and final control elements90674: National N Diploma, Engineering Studies: Electrical Engineering26WA2403Installing and testing sensors, transmitters and final control elements to specificationWA2404Obtaining and performing relevant scheduled/preventative maintenance schedules for sensors, transmitters and final control elementsWA2405Determining correct function of sensors, transmitters and final control elementsWA2406Recording test resultsWA2407Identifying, localising, monitoring and reporting/recording faults in sensors, transmitters and final control elementsWA2408Preparing sequential action plan to correct faults in sensors, transmitters and final control elementsWA2409Applying procedures to sequential and loop testingWA2410Checking sensors, transmitters and final control elements and marking for replacement, repair or overhaulWA2411Repairing/overhauling faulty items for fitting and /or refittingWA2412Fitting/**

equivalent to the SNR of 20 dB.

3. If the requirement is to transmit at 50 kbit/s, and a bandwidth of 10 kHz is used, then the minimum S/N required is given by $50000 = 10000 \log_2(1+S/N)$ so C/B = 5 then $S/N = 2^5 - 1 = 31$, corresponding to an SNR of 14.91 dB ($10 \times \log_{10}(31)$).
4. What is the channel capacity for a signal having a 1 MHz bandwidth, received with a SNR of −30 dB ? That means a signal deeply buried in noise. −30 dB means a S/N = $10^{-3}$. It leads to a maximal rate of information of $10^6 \log_2 (1 + 10^{-3}) = 1443$ bit/s. These values are typical of the received ranging signals of the GPS, where the navigation message is sent at 50 bit/s (below the channel capacity for the given S/N), and whose bandwidth is spread to around 1 MHz by a pseudo-noise multiplication before transmission.
5. As stated above, channel capacity is proportional to the bandwidth of the channel and to the logarithm of SNR. This means channel capacity can be increased linearly either by increasing the channel's bandwidth given a fixed SNR requirement or, with fixed bandwidth, by using higher-order modulations that need a very high SNR to operate. As the modulation rate increases, the spectral efficiency improves, but at the cost of the SNR requirement. Thus, there is an exponential rise in the SNR requirement if one adopts a 16QAM or 64QAM (see: Quadrature amplitude modulation); however, the spectral efficiency improves.

**POLICE ACT**

**HEAD OFFICE**

**Chief Engineer (Electrical)**
**Remuneration Level:**R796 965 per annum
**LOCATION:**SCM: Programme & Project Management (Persequor Park, Lynnwood, Pretoria,)
**REFERENCES: SCM193/2019** (1 post)

**Generic Requirements:**
Applicants must display competency in the post-specific functions of the post•
Be a SA Citizen•
Be fluent in at least two official languages, of which one must be English•
Be in possession of a

**refitting sensors,transmitters and final control elementsWA2413Preparing fitted/refitted sensors, transmitters and final control elements for testing and calibrationWA2414Configuring, calibrating, testing, adjusting, tuning and validating system performanceWE25Terminate signal and data cablesDateSignatureWA2501Identifying cables and conductorsWA2502Labelling cables and conductors90674: National N Diploma, Engineering Studies: Electrical Engineering27WA2503Obtaining relevant instructions, specifications and data sheetsWA2504Preparing cable ends for terminationWA2505Following specificationsWA2506Testing completed terminations for compliance to specificationsWA2507Fixing/securing cablesWE26Maintain instrumentation system componentsDateSignatureLook for evidence that confirms skills in:WA2601Obtaining relevant data with respect to the operation of the instrumentation systems/equipmentWA2602Locating, inspecting and testing a range of instrumentation system componentsWA2603Isolating instrumentation system/equipmentWA2604Obtaining and interpreting all relevant instrumentation circuits, drawings, instructions, manuals and data sheetsWA2605Checking the individual components within the instrumentation system for correct operationWA2606Dismantling/repairing/reassembling faulty componentsWA2607Selecting correct replacement parts from the manufacturer/supplier cataloguesWA2608Checking repaired/replaced instrumentation system components for correct operation90674: National N Diploma, Engineering Studies: Electrical Engineering28WA2609Completing service reportsWA2610Obtaining error code interpretation documentsWA2611Recording/documenting test resultsWA2612Undertaking zero, span and range checks on instrumentation systems/equipmentWA2613Calibrating instrumentation system/equipmentWE27Diagnose and repair digital equipment and componentsDateSignatureLook for evidence that confirms skills in:WA2701Obtaining relevant circuit diagrams, manuals, schematics, specifications, maintenance records, supplier cataloguesWA2702Locating, reading/recording and diagnosing built-in fault indicatorsWA2703Obtaining error code interpretation documentsWA2704Running test functions and recording faults and/or equipment status indicated by built-in test functions/displaysWA2705Checking electronic equipment/sub-assemblies, components, connections and terminations for conformance to specificationsWA2706Removing and replacing/repairing faulty components from the electronic equipmentWA2707Recording results tests on electronic equipment90674: National N Diploma, Engineering Studies: Electrical**

valid light motor vehicle driver's licence (Police Act members only)•

Must have no previous convictions or cases pending•
Must not have visible tattoo/s when wearing summer uniform (Police Act posts)•
Applicants will be subjected to a vetting process which will include• security screening and fingerprint verification fingerprints verification.

**Additional Requirements:**
Proven appropriate managerial experience•
Senior Certificate•
Relevant NQF 6 qualification in the field of the post•
Compulsory registration as a Professional Engineer at the Engineering Council of South Africa•
Four (4) years relevant post-registration experience will be an advantage•

**Skills:** Computer literacy, problem solving, project management.

**Core Functions:**
Manage all electrical aspects of construction projects, including design, documentation and inspection•
Brief/liaise with consultants•
Compile specifications for equipment used in SAPS•

**GENERAL:**
Only the official application form (available on the SAPS website and• at SAPS recruitment offices) will be accepted. All instructions on the application form must be adhered to. Failure to do so may result in the rejection of the application. The Z83 previously utilized will no longer be accepted.
The post particulars and reference number of the post must be correctly specified on the application form.•
A comprehensive Curriculum Vitae must be submitted together with the application form.•
Certified copies of an applicant's ID document, motor vehicle driver's• licence (where applicable), all educational qualifications obtained together with academic records thereof and service certificates of previous employers stating the occupation, must also be submitted and attached to every application.
The copies must be correctly certified on the copy itself, not at the back. The certification must not be older than three months.
Qualifications and driver's licences will be subjected to verification• checking with the relevant institution. The South African Police Service will

| | |
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| **Engineering29WA2708Isolating electronic sub-assembly from the power supplyWA2709Adjusting/tuning and calibrating electronic equipment/sub-assembliesWA2710Returning to service and testing to specification there paired electronic equipment/sub-assemblyWA2711Reporting/recording return to serviceWA2712Reproducing fault symptoms in the electronic equipment and verifying faults using appropriate test equipment and fault finding techniquesWA2713Refitting repaired/replaced components into the sub-assemblyWE28Apply principles of occupational health and safety in the work environmentDateSignatureLook for evidence that confirms skills in:WA2801Following safe working practicesWA2802Maintaining a safe and clean condition workplaceWA2803Carrying out workplace activities such as working safely, not endangering others, following company and legislative requirements, following proceduresWA2804Selecting, wearing and storing appropriate personal protective equipmentWA2805Using appropriate safety equipment and devicesWA2806Carrying out work with the information given by safety signs and symbols90674: National N Diploma, Engineering Studies: Electrical Engineering30WA2807Carrying out manual handling principlesWA2808Using emergency equipment correctlyWA2809Noting workplace hazardsWA2810Contacting appropriate personnel and emergency services in the event of an accidentWA2811Following emergency and evacuation proceduresWA2812Communicating and interpreting information appropriate to OH&S within the scope of this unitWA2813Checking and clarifying task-related informationWA2814Communicating with emergency personnelWA2815Checking for conformance to specifications**<br><br>**e: Technical Officer - Electrical /London**<br><br>**Salary: £31,070 to £36,893 plus £2,930 location allowance. You will receive £31,070 the band minimum. Progress to the band maximum of £36,893 will be via incremental progression**<br><br>**Location: Southwark**<br><br>**Could you create the latest crime-fighting technology?**<br><br>**As the challenge of fighting crime becomes increasingly complex, we're turning to technology to give us a new edge. Our Technology, Research & Innovation team comes up with advanced technology to help our officers – and you can be at the heart of pioneering** | verify the residential address of applicants and conduct reference checks.<br>All short-listed candidates will be subjected to fingerprint screening.•<br>Persons who retired from the Public Service by taking a severance• package, early retirement or for medical reasons, as well as persons with previous convictions, are excluded.<br>Applications must be mailed timeously. Late applications will not be accepted or considered. •<br><br>The closing date for all applications is **2019-05-10 at 12:00**.<br><br>If a candidate is short-listed, it can be expected of him/her to• undergo a personal interview. Shortlisted candidates may be subjected to security clearance.<br>Correspondence will be conducted with successful candidates only. If• you have not been contacted within 3 months after the closing date of this advertisement, please accept that your application was unsuccessful.<br>Appointments will be made in terms of the Public Service Act, 1994• (Act no 103 of 1994) or Police Service Act, 1995 (Act no 68 of 1995) as stipulated.<br>Applicants appointed under the Police Service Act will be subjected to• a medical assessment by a medical practitioner as determined by SAPS prescripts.<br>Applicants appointed under the Police Service Act will be subjected to• undergo a lateral entry programme at a SAPS Academy & Training Centre<br>The South African Police Service is under no obligation to fill a post after advertisement thereof.•<br>Short-listed candidates for appointment to certain identified posts• will be vetted in terms of the Criminal Law (Sexual Offences and related Matters) Amendment Act, 2007 (Act No 32 of 2007) and the children's Act, 2005 (Act No 38 of 2005). A candidate, whose particulars appear in either the National Register of Sex Offenders or Part B of the Child Protection Register, will be disqualified from appointment to the post.<br>The Criminal Law (Forensic Procedures) Amendment Act, Act 37 of 2013• requires that all new appointments in the South African Police Service as from 31 January 2015 provide a buccal (inside cheek) sample in order to determine their forensic DNA profile. The forensic DNA profile derived from the sample will be loaded to the Elimination Index of the National Forensic DNA Database. |

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**An experienced professional, you'll have an HNC/HND or OCN/OND in Electronic or Electrical Engineering. Ideally, your expertise covers at least some of the following:**

- **General electronics**
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**<u>Essential</u>**

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**• Working with Development Engineers to take in requirements and assisting with design solutions to business problems, and turn these into fully functional products or systems. Including working on any part of the development lifecycle including electronics design, prototyping, manufacture, test and assembly**

**• Working comfortably and efficiently on their own, in a project team containing departmental colleagues either in the laboratory or out in the field**

**• Provide third line support and fault analysis in laboratory or in the field alongside operational colleagues and officers.**

**Experience**

**Practical experience in developing technology solutions in many of the following areas:**

**• General Electronics**

**• Embedded systems including hardware and software**

**• Knowledge of Audio, Communication and RF systems**

**• Schematic capture and PCB design**

**• Liaison with external suppliers and manufacturers**

**• Manufacturing techniques**

**• Experience of product evaluation and selection**

| | |
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| **against specified criteria.**<br><br>**Qualifications**<br><br>**• HNC/HND in Electronic/Electrical Engineering**<br><br>**OR**<br><br>**• ONC/OND in Electronic/Electrical Engineering hands-on practical experience in Electronic Systems development.**<br><br>**Required Languages**<br>**English**<br>**Reports To**<br>**Development Engineer - Electronics** | |

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